



**TSCA SUPPLEMENTAL PCB
CHARACTERIZATION REPORT
COMMERCIAL FOUNDRY COMPANIES
326 SOUTH STREET
NEW BRITAIN, CONNECTICUT**

PREPARED FOR:

Federal Deposit Insurance Corporation, in its capacity as Receiver of Citytrust Bank,
3701 N. Fairfax Drive, Room 7034
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Federal Deposit Insurance Corporation as Receiver for Citytrust Bank
3701 N. Fairfax Drive, Room 7034
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Attention: Ms. Ann V. Kraus

Re: TSCA Supplemental PCB Characterization Report
Commercial Foundry Companies
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Dear Ms. Kraus:

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In accordance with our contracts with Commercial Foundry Companies, dated December 6, 2012 (Revised December 12, 2012) and June 24, 2013, GZA GeoEnvironmental, Inc. (GZA) performed supplemental characterization activities at the above referenced property (Site) to further assess the extent of polychlorinated biphenyls (PCBs) in ceilings, concrete walls, floors and below-floor soils throughout Site building and around stormwater drain lines north and south of the building. The source of the PCBs is believed to be a release of heat transfer oils from an embossing machine used by a previous building operator prior to occupancy of the Site by the Commercial Foundry Companies (CFC). GZA notes supplemental characterization work has been performed to address both the U.S. EPA Toxic Substance Control Act (TSCA) regulations and the Connecticut Department of Energy and Environmental Protection (CT DEEP) Transfer Act requirements. Because the two sets of regulations overlap but are not identical, a separate report for the Transfer Act investigation will be prepared for submittal to CTDEEP. GZA prepared this report in accordance with the Terms and Conditions of our contract and the Limitations in Appendix A.

We appreciate the opportunity to work with you on this project. Should you have any questions, please contact the undersigned.

Very truly yours,

GZA GEOENVIRONMENTAL, INC.


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1.0 INTRODUCTION

In accordance with our contracts with Commercial Foundry Companies (CFC), dated December 6, 2012 (Revised December 12, 2012) and June 24, 2013, GZA GeoEnvironmental, Inc. (GZA) performed supplemental polychlorinated biphenyls (PCB) characterization of building materials and soils at the CFC property located at 326 South Street, New Britain, Connecticut (Site). Figure 1 is a Site locus map showing the location of the subject property on a U.S.G.S. 7.5 minute quadrangle base map that indicates topography in the Site vicinity. The area surrounding the Site is developed with commercial businesses to the west and south and single-family and multi-family residences to the north and east. This report is subject to the Terms and Conditions of our contract and the Limitations in Appendix A.



The objective of our study was to complete Site investigation in a manner consistent with U.S. Environmental Protection Agency (EPA) Toxic Substances Control Act (TSCA) regulations for characterization of porous surfaces and soil impacted with PCBs as found in Title 40 Part 761 of the Code of Federal Regulations (40 CFR Part 761). Characterization work conducted in December 2012, January 2013, and July 2013 included the following tasks:

- Collecting 27 concrete wall samples at 4-feet above the floor and 10 concrete wall samples at 10-feet and 15-feet above the floor to assess walls for PCB impacts from spilled, splashed or misted machine oils;
- Collecting 20 ceiling wipe samples to assess ceilings for PCB impacts from splashed or misted machine oils;
- Collecting 152 concrete floor chip samples at 76 locations within the Site building;
- Excavating 14 test pits, advancing 31 soil borings and collecting soil samples to assess the extent of soils with PCBs above 1 milligrams per kilogram (mg/Kg);
- Analyzing 50 concrete wall, 15 ceiling wipe, 107 concrete floor and 74 soil samples for PCBs using appropriate laboratory analysis. These totals include duplicate samples;
- Analyzing 7 Orangeburg pipe samples and one sediment sample for PCBs using appropriate laboratory analysis. These totals include duplicate samples;
- Preparing this report documenting the work performed and our findings and conclusions regarding the extent of PCB impacts in building materials and soils at the Site.

We note that assessment of the Site for compliance with the Connecticut Department of Energy and Environmental Protection (CT DEEP) Remediation Standard Regulations (RSRs) under the Property Transfer Act (PTA) remains in process. This report focuses on PCB impacts inside the Site building, below the floors of the Site building and near exterior stormwater piping that must be addressed under TSCA and does not address the range of Site assessment needed to fully comply with PTA requirements. The additional PTA related Site

investigation activities are being addressed in a separate report. We also note that this report is not a Remedial Action Plan (RAP). A RAP that contemplates demolition of the CFC portion of the building, remediation of PCB-impacted building materials as necessary in the Atlas portion of the remaining building and soil remediation (for PCBs found on the CFC portion of the property) will be prepared in compliance with TSCA and other applicable legal requirements.

2.0 BACKGROUND



This section provides an overview of the Site and its current and past usage according to information obtained during GZA's interviews with CFC and long term Site tenants/operators. Much of the information presented below was previously submitted to CT DEEP in GZA's report titled "Limited Phase I Update and Phase II Environmental Site Assessment Report" (2006 Phase I/II), dated February 14, 2006. We note that the GZA 2006 Phase I/II Report was also submitted to EPA in June 2009 as part of a Remedial Action Plan for PCB impacted soils found on the exterior of the Site.

2.1 SITE DESCRIPTION

The Site appears to have historically been six individual parcels of land that were joined and are now occupied by a single-story, approximately 44,960-square foot industrial building. Five of the parcels were acquired by G&T Manufacturing (later known as Tyco Coating Products) between 1947 and 1953. The sixth parcel was acquired by John Hancock Mutual Life Insurance Company in 1959 from the Hartford National Bank and Trust Company. The Site was consolidated by South Street Realty Corporation into a single parcel in 1959. The original buildings at the Site were likely constructed in the late 1940s and the 326 South Street address was first listed in city directories in 1949. The 5 East Street address (tenant space) was first listed in 1951. The buildings were connected sometime before 1965 based on aerial photography. Additions were constructed on the northern side of the 5 East Street building in \pm 1973 and on the eastern side of the 326 South Street building in \pm 1973 to 1977. A final addition was constructed on the northwest side of the 5 East Street building in 2002.

For a more detailed Site description, the reader is referred to GZA's 2006 Phase I/II report. A Site Plan showing previous exterior remediation areas for PCB impacted soils and the current interior study area is provided as Figure 2, attached.

2.2 SURROUNDING PROPERTY USE

The land use in the vicinity of the Site is mixed industrial, commercial and residential. Adjacent properties to the south are industrial. The property to the west is commercial (a restaurant). Adjacent and vicinity properties to the north and east are residential single-family and multi-family homes.

2.3 SITE HISTORY & OPERATIONS

The Site has been used for commercial/industrial purposes dating back to the 1940s. The Site is currently occupied by CFC (central and eastern portion of the Site building), which had manufactured aluminum and bronze castings from 1993 until July 2014 (at which time the foundry operations ceased), and by Atlas Metalizing (western portion of the Site building),

which applies metalized coatings to various types of films and laminates (Atlas operations are on-going as of the date this report was issued). The Site is subject to the Connecticut Transfer Act as a result of the historic generation of hazardous waste by the operations that pre-date CFC's occupancy (causing the Site to be an Establishment). A November 16, 1993 transfer of the establishment was completed under the PTA.

2.4 PRIOR GZA REPORTS

Below we have summarized data from previously submitted documents that describe historical PCB characterization at the Site. The documents identified in this Section should be reviewed in conjunction with the newest data provided in this PCB characterization report in order to understand the extent of PCB characterization testing completed to date for the Site.



Interior PCB Characterization Report, March 2011

GZA collected 44 wall samples, 46 concrete chip samples and advanced 46 borings within the Cutting & Grinding Room (Area 12) and the Oil Storage Room (Area 11) for PCB analysis to assess a suspected release area for PCB impacts relating to the former embossing machine which had been located in the Cutting & Grinding Room (Area 12).

Chip samples (paint and minor amounts of underlying concrete) from the Oil Storage Room (Area 11) walls contained PCBs at concentrations between 7.8 and 42 mg/Kg. Samples from the Cutting & Grinding Room (Area 12) walls contained PCBs at concentrations between 5.4 and 760 mg/Kg. The highest PCB results were found along the east wall of the Cutting & Grinding Room (Area 12) in the same vicinity as the highest PCB concentrations in floor and below-floor soil samples (see below).

Concrete floor PCB concentrations in the Oil Storage Room (Area 11) were above 1 mg/Kg in four of eight samples collected from the 0 to 0.5 inch interval. None of the concrete floor samples from 0.5 to 1.0 inches in the Oil Storage Room (Area 11) contained PCBs above 1 mg/Kg. Concrete floor PCB concentrations in the Cutting & Grinding Room (Area 12) were above 1 mg/Kg except for the sample at location 15 in the northwest portion of this room. The highest concentrations of PCBs in Cutting & Grinding Room (Area 12) concrete floor samples were detected along the east wall of the Cutting & Grinding Room (Area 12) at concentrations as high as 2,200 mg/Kg (sample S-25-C2). In general, PCB concentrations decreased from the 0 to 0.5 inch sample depth to the 0.5 to 1.0 inch sample depth but several of the deeper concrete samples in the Cutting & Grinding Room (Area 12) were also above 1 mg/Kg PCBs.

Laboratory analysis of sub-slab soils indicated that PCBs migrated to sub-slab soils, primarily along the east wall of the Cutting & Grinding Room (Area 12). Soils PCB concentrations up to 280 mg/Kg were detected in soil samples from below the floor near the east wall. These soil samples were collected from soil borings that were completed with a Geoprobe sampling rig.

GZA noted further characterization was necessary prior to development of a remedial plan for concrete and soils in and around the Cutting & Grinding Room (Area 12)/Oil Storage Room (Area 11) because the extent of PCBs in concrete walls (or paint on

the walls) was not yet defined for rooms outside the Cutting & Grinding Room (Area 12)/Oil Storage Room (Area 11).

March 2011 Wipe and Indoor Air Data (which was included in Appendix D and summarized in Section 3.3 of the GZA October 2012 Limited Source Removal Summary Report)



In March 2011, CFC requested GZA collect wipe samples and indoor air samples to assess whether PCBs identified in concrete floors and walls in the Cutting & Grinding Room (Area 12) could potentially impact Site workers. GZA collected 8 surface wipe samples and 8 indoor air samples to assess interior conditions as they relate to worker safety. Samples were submitted to Contest Analytical Laboratory of East Longmeadow, MA for analysis. Laboratory results for the samples collected are included in Appendix C.

Indoor air samples did not contain PCBs and laboratory detection limits were between 0.050 and 0.970 micrograms per cubic meters of air ($\mu\text{g}/\text{m}^3$). NIOSH recommended exposure limits (on a time weighted average) are 1.0 $\mu\text{g}/\text{m}^3$ for Aroclor 1242 and 1.0 $\mu\text{g}/\text{m}^3$ for Aroclor 1254 while OSHA recommended exposure limits are 1,000 $\mu\text{g}/\text{m}^3$ for Aroclor 1242 and 500 $\mu\text{g}/\text{m}^3$ for Aroclor 1254.

Wipe sample analytical results were between non-detected (less than 0.20) and 110 $\mu\text{g}/100\text{cm}^2$ PCBs. Three floor wipe samples collected in the Cutting & Grinding Room (Area 12) near metal working machines had concentrations between 11.0 and 26.0 $\mu\text{g}/100\text{cm}^2$ PCBs. One wall wipe sample collected at 1 foot above the floor in the Cutting & Grinding Room (Area 12) had a concentration of 110.0 $\mu\text{g}/100\text{cm}^2$ PCBs. Two wall wipe samples collected at 4 feet above the floor in the Cutting & Grinding Room (Area 12) had concentrations of 4.6 and 21.0 $\mu\text{g}/100\text{cm}^2$ PCBs. One wall wipe sample collected at 4 feet above the floor in the adjacent Aluminum Foundry Room (Area 10) had a concentration of 7.8 $\mu\text{g}/100\text{cm}^2$ PCBs. The highest concentrations for floor and wall samples were on the east wall of the Cutting & Grinding Room (Area 12) near the location of the former embossing machine. Away from the location of the former embossing machine, PCB concentrations in wipe samples decreased significantly. Mr. James Voos (owner and operator of CFC) indicated that Commercial Foundry workers do not routinely come in contact with walls and are typically wearing gloves and uniforms that remain on Site when workers leave the building.

Supplemental Interior PCB Characterization Report, June 2011(which was included as Appendix B of the GZA October 2012 Limited Source Removal Summary Report described below)

The objective of this supplemental study was to complete additional characterization of PCBs in building materials by collecting wall paint chip, wall wipe and concrete floor samples at widely-spaced locations throughout the Site building.

Each of the paint chip samples collected contained PCBs at varying concentrations. However, only paint chip samples from the Cutting & Grinding Room (Area 12), the Oil Storage Room (Area 11) and the Aluminum Foundry Room (Area 10) just west of Areas 11 and 12 contained PCBs above 50 mg/Kg, which is the threshold below which materials can be considered “Excluded PCB Products” (i.e., the TSCA Section 761.3 definitions indicate Excluded PCB Products are products or sources of products containing < 50 ppm

concentration PCBs that were legally manufactured, processed, distributed in commerce, or used before October 1, 1984.). While wall paint chip samples in Area 11 and Area 12 ranged from 150 to 880 mg/Kg, paint chip samples from the Aluminum Foundry Room (Area 10) ranged from 21 to 150 mg/Kg and a paint chip sample from the Central Loading Dock (Area 4) contained 33 ppm PCBs. Paint chip samples in other parts of the building were below 13 mg/Kg with most of the paint chip samples from these other areas containing less than 10 mg/Kg PCBs.



GZA analyzed 10 wall wipe samples where corresponding paint chip samples contained elevated PCB concentrations. Wall wipe sample results ranged from 3.3 to 60 $\mu\text{g}/100\text{cm}^2$. Two wipe samples from the Cutting & Grinding Room (Area 12) contained 32 and 60 $\mu\text{g}/100\text{cm}^2$ PCBs which are above the 10 $\mu\text{g}/100\text{cm}^2$ criteria for unrestricted use. Also, a sample just west of the Cutting & Grinding Room (Area 12) along the south wall of the Mold Storage portion of the Aluminum Foundry Room (part of Area 10) had 12 $\mu\text{g}/100\text{cm}^2$ PCBs. Other wipe samples from the Oil Storage Room (Area 11), and Mold Storage Room in the Aluminum Foundry (Area 10) and the Bronze Foundry Room (Area 14) contained PCBs less than 10 $\mu\text{g}/100\text{cm}^2$. It appears based on the data that except for the wipe sample in the Aluminum Foundry Room (Area 10), only the wipe samples from the Cutting & Grinding Room (Area 12) contained PCBs greater than the 10 $\mu\text{g}/100\text{cm}^2$ unrestricted use criteria.

Supplemental analysis of concrete floor samples west of the Oil Storage Room and Cutting & Grinding Room (Areas 11 and 12) indicated surface samples (0 to 0.5 inches below floor surface) contained low level PCBs at concentrations from 0.58 mg/Kg to 17 mg/Kg. The concrete floor samples from 0.5 to 1 inch below floor surface were below 1 mg/Kg PCBs.

Limited Source Removal Summary, October 2012

In December 2011 during a routine one week CFC plant shut down period surrounding the Christmas holiday, GZA performed a limited source removal of concrete and soils within the Cutting & Grinding Room (Area 12) because the Cutting & Grinding Room contained building materials with the highest concentration of PCBs and appeared to be the location of greatest PCB impacts at the Site. Approximately 33 tons of concrete and approximately 104 tons of soil were taken off-Site for disposal totaling approximately 137 tons of PCB remediation waste. The limits of the remediated area are shown on Figure 2. The remediated area was excavated up to four feet below the concrete floor (south end of remediation) based on previous characterization data. Once soils were removed, post excavation confirmation soil samples and below floor concrete foundation wall confirmation samples (east side of the excavation) were collected, the excavation was filled with flowable fill (a light weight concrete mix) and a new concrete floor was poured. Subsequently (see discussion below), an epoxy coating was applied over the entire floor in the Cutting & Grinding Room (Area 12) and a limited portion of the Aluminum Foundry (Area 10). The remedial excavation could not remain open pending confirmation sample analyses because any extended shut down of the CFC operations would have had a significant impact on business operations.

Analytical results for the concrete wall (east side limit of excavation), soil sidewall and soil bottom samples collected at the limits of the remedial excavation indicated



compliance with the remedial goal of 1 mg/Kg PCBs (unrestricted-use level in the TSCA regulations) for the northeast, north, west and southwest parts of the excavation area. However, concrete wall samples C-5 through C-8, sidewall soil sample SW-15 (4 feet bgs) and bottom soil samples BOT-4-10, BOT-5-10, BOT-6-10, BOT-7-10, BOT-8-10 and BOT-8-12 from the southeast portion of the excavation area contained PCB concentrations above 1 mg/Kg. In this area, stained concrete and soils were observed. Concrete wall staining was noted both above (lower portion of the wall) and below the floor slab. Soil staining, inferred to be PCB impacted soil, was present in the south wall of the excavation beyond the excavation area to the south. Additional excavation to the south was not possible based on time constraints placed on this phase of the remediation.

Oily sediment in a 4-inch diameter cast iron pipe that extended through the east wall of the foundation at the north end of the remedial excavation was sampled and analyzed and found to contain high levels of PCBs. The pipe was part of the former Cutting & Grinding Room (Area 12) floor drain system which had been flushed, plugged with a plastic sealant, and capped with concrete in 1992, prior to CFC occupying the Site building. The sediment sample was identified as Pipe-13-Soil and was found to contain PCBs at a concentration of 47,200 mg/Kg. We note that a soil sample from the sidewall of the remedial excavation immediately below the drain pipe did not contain PCBs. The 4-inch diameter pipe connects to a larger north-south running (active) storm drain pipe that is below the floor of the adjacent room (current Bronze Foundry Room – Area 14) to the east. The larger drain pipe to the east was left active in 1992 when the Cutting & Grinding Room (Area 12) floor drains were flushed and sealed since the piping currently conveys stormwater from building roof drains and from exterior catch basins north of the building to the municipal stormwater system beneath South Street (south of the Site building).

Epoxy Paint Application to Floors, October 2012

Floor cleaning and epoxy coating in the Cutting & Grinding Room (Area 12) and an area just west of the Cutting & Grinding Room (total of 2,900 square feet) was completed in July 2012 during CFCs normal plant shutdown period. The epoxy was applied in the Cutting & Grinding Room (Area 12) to protect the new concrete floor installed over the limited source removal area from being re-contaminated with PCBs that might be tracked into the area during routine plant operations from other impacted floor areas. The epoxy paint was extended to the entire Cutting & Grinding Room (Area 12) and also out into a small portion of the Aluminum Foundry Room (Area 10) to the west of the Cutting & Grinding Room (Area 12) in order to cover those floor areas which were known (at that time) to have the highest concentrations of PCBs. In a telephone conversation with EPA to discuss the limited source removal, Kim Tisa (regional EPA PCB Coordinator) had recommended the floors be coated with epoxy to prevent tracking of PCBs onto the newly installed floor.

3.0 CONCEPTUAL SITE MODEL

A Conceptual Site Model (“CSM”) was developed that considers the Site setting, operational history, constituents of concern, and available physical and chemical data in order to understand the potential for releases and the pathways through which releases might impact environmental media. Initially, a planning phase CSM was developed using existing Site data from previous subsurface investigations and available published data.

Prior to the start of the interior PCB assessment, the CSM below was used to design the sampling program for interior/exterior assessment of PCB impacted building materials and below-floor soils.

3.1 SITE TOPOGRAPHY AND ELEVATION

The overall Site topography generally slopes very gently from the northeast (high) to southwest (low). Site elevation is at approximately 85 feet above mean sea level (msl) based on the United States Geological Survey (USGS) New Britain, Connecticut 7.5-minute Topographic Quadrangle Map, dated 1966 and photo-revised in 1992. Area topography slopes gently to the southwest toward Willow Brook located approximately 2,800 feet southwest of the Site.



3.2 SURFICIAL AND BEDROCK GEOLOGY

According to the 1959 “*Geologic Map of the New Britain Quadrangle, Connecticut*” published by the United States Geologic Survey, soils beneath the Site consist of “fine-grained, non-cyclic” sediment. This material is described as reddish brown clay and silt characterized by contorted bedding. U.S.G.S. mapping indicates bedrock at an elevation of approximately 50 feet above mean sea level indicating that unconsolidated soils at the Site are approximately 35 feet thick which is consistent with the Site specific soil boring information previously obtained by GZA.

According to the 1966 “*Bedrock Geology Map of the New Britain Quadrangle, Connecticut*” published by United States Geologic Survey, bedrock beneath the Site is expected to consist of the Portland Arkose formation. A northeast to southwest trending fault is mapped near the southeast corner of the Site. The fault dips steeply (nearly vertical) according to a cross-section of the area that is presented on the geologic map. No bedrock outcrops were observed on-Site but bedrock outcrops are mapped approximately one quarter mile west of the Site.

3.3 HYDROGEOLOGY

According to the adopted Water Quality Classifications for the Connecticut River and Southeast Coastal Basin (CT-ECO website information), groundwater beneath the Site is designated by the Connecticut Department of Energy and Environmental Protection (CT DEEP) as Class GB, which indicates that the groundwater is presumed to be a non-potable water source.

Two bedrock industrial supply wells are located on the Site. One well was in use to provide cooling water to the CFC furnaces until July 2014 when CFC operations ceased. This well is an 8-inch diameter cased well located within a vault off the north-central side of the building. The well was pumped using a jet pump located inside the building. According to previous research, this well was tested in 1962 and provided a yield of 22 gallons per minute (gpm). The second well is located beneath the northwestern portion of the Site building in the Atlas Metalizing tenant space. Based on information contained in “*Hydrogeologic Data for the Lower Connecticut River Basin*” (CT Water Resources Bulletin No. 30, 1975), this is a 6-inch diameter well and is approximately 270 feet deep; it was installed in 1961 by “Coating Product”. This well initially produced 75 gallons per

minute (gpm) with a 70 foot drawdown from a static condition of 30 feet. A well log contained in the Bulletin indicates the material encountered during drilling consisted of 10 feet of gravel underlain by 26 feet of clay, which in turn was underlain by blue slate and brownstone. The published information indicates bedrock was encountered 36 feet below ground surface and the overburden soils were sealed off from the bedrock aquifer by the well casing. The well referenced in the Bulletin is likely the well located beneath the Atlas Metalizing tenant space. This well is reported to be actively in use by Atlas Metalizing to supply make-up water to the cooling towers that service the metalizing machines.



The nearest watercourse to the Site is Willow Brook, which is located approximately 4,000 feet to the south and approximately 2,800 feet to the southwest (at its closest point). Willow Brook flows to the southeast and is designated as Class B on the CT DEEP Water Classification map. Class B surface waters are suitable for recreational use, fish and wildlife habitat, agricultural and industrial supply and other legitimate uses including navigation.

Based on area topography and data from previous subsurface investigations performed on-Site by GZA, and at the adjacent Reflexite property to the south by others, groundwater beneath the Site is inferred to flow in a west to southwest direction. During previous GZA studies, groundwater was encountered at depths of 7 to 14 feet below the ground surface. GZA notes that localized groundwater flow direction in any portion of the Site may vary as a result of underground utilities, heterogeneous subsurface conditions and/or due to influence of the two on-Site process water pumping wells.

3.4 PLANNING CONCEPTUAL SITE MODEL

The Site has been used for commercial/industrial purposes dating back to the 1940s. Figure 1 is a Site Locus Map showing the Site location on a U.S.G.S. topographic base map. The Site is currently occupied by CFC (central and eastern portions of the Site building), which manufactured aluminum and bronze castings from 1993 until July 2014, and by Atlas Metalizing (western portion of the Site building), which applies metalized coatings to various types of films and laminates.

Figure 2 is a Site Plan showing the property boundary, the Site building footprint, surrounding Streets (with public utility lines indicated) and “Area” designations for certain interior portions of the Site building. The “Area” designations (black text) were used historically by GZA and other consultants to identify specific portions of the building interior which were divided by walls. We note the 2002 building addition (northwest corner of building) does not have an “Area” designation and exterior portions of the Site do not have “Area” designations. Building “Areas” are distinct from environmental Areas of Concern (AOCs) which are also shown on Figure 2 as red boxes that indicate the approximate limits of suspect and/or confirmed contaminant release areas (which were identified during the Phase I, II and III environmental investigation process). We note that previous reports have used a variety of space designations, including AOCs, building “Areas” and specific operational areas (i.e., Cutting & Grinding Room - Area 12), when describing the location of releases, investigations and remediation activities. The table below shows the relationships between AOCs, building “Areas” and other space names that have been previously used when describing the Site environmental conditions.



Building “Area”	Room Description or Current Operations	AOCs Associated With The Designated Building “Area”
2002 Building Addition	Atlas storage and shipping area.	AOC-8, AOC-9
Area 1	Atlas storage area, northwest part of building	AOC-16
Area 2	Atlas offices, west side of building	None
Area 3	Atlas operations/metalizing, west side of building	AOC-2, AOC-3, AOC-14, AOC-15, AOC-17
Area 4	Combined loading dock, central part of building between CFC and Atlas	AOC-2, AOC-10, AOC-13
Area 5	CFC shipping area, north-central part of building	None (but AOC-1 and AOC-6 are outside and north of this area)
Area 6	Currently part of Area 5, CFC shipping area, north-central part of building	None
Area 7	CFC offices	None
Area 8	CFC Restrooms, south-central part of building	None
Area 9	CFC Lunch/Break Room, south-central part of building	None
Area 10	CFC Aluminum Foundry Room and Mold Storage Room, central part of building	AOC-2 (floor drains)
Area 11	CFC Oil Storage Room, northeast part of building	AOC-7
Area 12	CFC Cutting & Grinding Room, eastern part of building	AOC-2, AOC-11-INT
Area 13	CFC Compressor Room, northeast part of building	AOC-12
Area 14	CFC Bronze Foundry Room, eastern end of building	AOC-2, AOC-12, AOC-18
Exterior Southeast	Outside areas south of Area 10 and Area 12 where CFC electrical transformer, dust collectors and below grade storm drain lines are located	AOC-4B, AOC-5, AOC-11-EXT, AOC-12
Exterior Northeast	Outside areas north of Area 11 (OSR) by a back door and piping through wall of OSR	AOC-7, AOC-9, AOC-12
Exterior South-Central	Outside area south of shared loading dock	AOC-4A, AOC-9, AOC-11-EXT
Exterior North-Central	Outside area north of CFC shipping area	AOC-1, AOC-6
Exterior West	Outside areas at southwest and northwest corners of building where storm drains and overhead doors are located	AOC-9

Based upon prior investigations at the Site, the release mechanism for PCB impacts to the interior walls, floors, and soils is spills and leaks from PCB-bearing machine oils that are

presumed to be from historical use of a former embossing machine in the Cutting & Grinding Room (Area 12). The embossing machine used heated oil in liquid filled rollers for thin film embossing. The embossing machine was likely located along the east wall of the Cutting & Grinding Room (Area 12) based on the distribution of PCBs noted during previous Site investigations. In addition, PCB-bearing oils may also have been stored in the Oil Storage Room (Area 11) where they could have been spilled to the floor during routine handling of drummed oils.



PCBs from the embossing machine or from storage of PCB-bearing oils appear to have migrated below the floor slab. The seam where the floor slab meets the foundation wall along the eastern side of the room appears to have been a pathway for surface spills from the embossing machine to migrate to soils beneath the floor slab. Based upon staining observed on the eastern wall and soil and concrete foundation wall/footing analytical results from the remedial excavation (limited source removal) in the Cutting & Grinding Room (Area 12), PCB-bearing oils appear to have migrated down the eastern foundation wall and spread into soils around the foundation footing. Previous testing also indicates impacted soil remains in-place below the floor near the southern end of the remedial excavation area.

Site soils are dense and relatively impermeable (glacial till with significant silt and clay) and PCBs are relatively immobile in dense soil. However, soils in the immediate vicinity (within approximately one foot) of building foundation walls and footings are more permeable sandy soil. Migration of PCB oils in the more permeable fill along the foundation may have occurred but the PCB impacts do not appear to have migrated significantly into the denser, native soils away from foundation footings. The extent of PCB impacts to soils proximal to the footing, on both sides of the wall between the Cutting & Grinding Room (Area 12) and Bronze Foundry Room (Area 14), was a data gap that was further evaluated and closed as part of this planned supplemental testing.

Sub-slab soil characterization data indicate no significant discharges beneath the floor drains (which were previously cleaned and plugged with concrete) in the Cutting & Grinding Room (Area 12). However, a sample of sediment collected from inside a former floor drain pipe at the north end of the Cutting & Grinding Room (Area 12) remedial excavation had PCBs at high concentrations (greater than 47,000 mg/Kg). As such, it appears, PCBs are present in sediment in the floor drain system which formerly connected to the Site stormwater lines. While the floor drains in the Cutting & Grinding Room (Area 12) and Bronze Foundry Room (Area 14) were flushed, plugged and sealed with concrete, the main storm drain line was left open and active so that stormwater from the building roof drains and two catch basins north of the building could flow to the municipal stormwater lines located below South Street. The Site stormwater collection system starts at the northern property line at two exterior catch basins immediately north of the Oil Storage Room (Area 11). Storm drain piping from these catch basins runs below the Bronze Foundry Room (Area 14) floor, traverses the length of the Bronze Foundry Room (Area 14) in a north to south direction and then exits the building at the southwest corner of the Bronze Foundry Room (Area 14) (see Fig. 2A). After exiting the south side of the building, the stormwater line extends to the municipal sanitary sewer or storm sewer lines located below South Street. The exact location of the stormwater pipes outside the south wall of the building and the location of piping connections (which would be the most likely location of a release to soils) were data gaps that were further assessed and closed as part of the supplemental study. It was possible that PCB impacts to soils

surrounding the storm drain system could have occurred at pipe connections, therefore, additional testing was performed along the pipe and focused on pipe connections.



Along the east wall of the Cutting & Grinding Room (Area 12), existing data indicate embossing machine operations and/or oil handling have resulted in PCB impacts to the walls of the Cutting & Grinding Room (Area 12). The highest PCB impacts for wall samples (samples collected 1/2-inch into the concrete wall surface) are adjacent to the highest PCB concentrations in concrete floor and below floor soil samples. Paint samples with elevated PCBs were also found in the Aluminum Foundry Room (Area 10) to the west of the Cutting & Grinding Room (Area 12). Elevated PCB levels in wall paint samples outside the Cutting & Grinding Room (Area 12) with decreasing levels with distance from the Cutting & Grinding Room suggest the spread of PCBs was from misting of machine oils with PCBs when the embossing machine was operating. Consistent lower concentrations of PCBs in wall paint samples further from the source and in the Atlas tenant space indicate that some low level of PCBs (<15 mg/kg) may also be present in paint itself. Oil misting from the embossing machine is consistent with information reported by Mr. Gilles Beaudoin who currently works for Atlas Metalizing but also worked for the former tenant that operated the embossing machine in the Site building.

Paint samples from the walls of the Shared Loading Dock (Area 4) contained PCBs at concentrations up to 58 mg/Kg; higher than levels in wall paint samples from other surrounding building areas immediately to the east and west. Previously, exterior soil remediation for PCBs was performed just outside (south of) the Shared Loading Dock (Area 4) and it is therefore likely that PCB oils were managed through this loading dock area. Except for building Areas 10, 11 and 12, other parts of the Site building (further away from former embossing machine areas) had paint with PCBs up to 13 mg/Kg in wall samples. It is not clear if these low level (<15 mg/Kg) PCBs in wall samples away from the former embossing machine locations are due to oil misting throughout the facility or from PCB containing paint that may have been used throughout the facility at one time. However, it is clear that PCB levels in wall samples from the Shared Loading Dock (Area 4) are elevated compared to building areas occupied by Atlas and the Commercial Foundry areas immediately to the west and east of the Shared Loading Dock (Area 4). Testing to identify the extent and magnitude of PCB impacts to walls and ceilings was considered a data gap which was addressed and closed by the supplemental testing.

PCBs spilled in the Oil Storage Room (Area 11) and Cutting & Grinding Room (Area 12), respectively, which have been referenced in other reports-,) also appear to have been tracked into the Aluminum Foundry Room (Area 10) to the west. No PCBs were detected in a limited number of floor samples previously collected at locations just inside the Bronze Foundry Room (Area 14), to the east of the Cutting & Grinding Room (Area 12) and Oil Storage Room (Area 11). However, because only a few samples were collected in the Bronze Foundry Room (Area 14), a more comprehensive assessment of the floor in the Bronze Foundry Room (Area 14) was determined to be necessary. Also, PCBs in concrete floors elsewhere in the building were not tested and further testing was performed as part of this supplemental assessment to address and close this data gap.

PCBs had not been tested in groundwater at the Site prior to this study. The potential for PCBs in groundwater was considered a data gap in the planning CSM. However,

groundwater monitoring results from February and June 2013 did not indicate the presence of PCBs above the laboratory Method Reporting Limit (MRL).

4.0 REGULATORY SETTING

Based on the Site's status within the CT DEEP Transfer Act Program and Voluntary Remediation Program (VRP), and the presence of PCB concentrations in concrete and soil that also require compliance with Federal TSCA regulations, investigations of the PCB impacted areas were conducted in a manner that met the requirements of both the State (RSRs under the Transfer Act and VRP) and Federal (TSCA) regulations. Under the RSRs, soils are required to meet Direct Exposure Criteria and Pollutant Mobility Criteria. GZA notes that groundwater quality is briefly mentioned in this TSCA report but will be discussed in more detail in the separate Transfer Act report. We also note that the TSCA regulations apply to PCB impacts to building materials which are not addressed in the RSRs.



GZA notes that a Remedial Action Plan for the Site, including demolition of the CFC portion of the building, will be developed by the FDIC.

5.0 BUILDING AND SUBSURFACE INVESTIGATIONS

GZA's building and subsurface PCB characterization program was developed based on the above conceptual site model (CSM) which incorporated the results of previous Site investigations. The following sections summarize additional assessment of PCBs in soils below floors and along drain lines, concrete floors, concrete walls and ceilings at the Site.

5.1 TEST PITS, SOIL BORINGS AND SURFICIAL SOIL SAMPLING

Test Pits

GZA subcontractor AES Remedial Contracting LLC excavated nine test pits on the Site in December 2012. GZA subcontractor ESI Environmental Inc. excavated five test pits in July 2013. Nine of the test pits were outside the building, between the building and South Street, and five of the test pits were inside the building along the western wall of the Bronze Foundry Room (Area 14). Exterior test pits TP-4 and TP-10 were at the same location but were excavated on different dates for different purposes. The test pits were excavated to further assess PCB impacts to the active storm drain system and along former (abandoned) floor drain and stormwater lines. Test pit locations are shown on Figures 2A and 2C and cross sections of select test pits are shown on Figures 2B and 2D. Prior to excavating the interior test pits, the concrete floor was cut and removed. The exterior test pits were excavated up to 5.5 feet below grade and the interior up to 3.5 feet below grade. Test pits were excavated with a John Deere 35D mini-excavator in December 2012 and a John Deere 50D mini-excavator in July 2013. Excavation inside the building exposed portions of a 6-inch Orangeburg drain pipe (Orangeburg pipe is an asphalt coated, fibrous piping historically used for building drain lines), an 8-inch ductile iron storm drain pipe and abandoned iron floor drain pipes (2 to 4 inches in diameter).

Excavations in December 2012 were performed at the inferred locations of pipe connections which had been identified by Underground Surveying LLC, a utility locating subcontractor. Underground Surveying traced the alignment of piping using electronic



methods to assist GZA in the location of the test pits. Also, Underground Surveying used an in-pipe televiewer to observe the interior of the 8-inch iron stormwater line which was accessed from a stormwater sampling port in the Compressor Room (Area 13). The 8-inch stormwater piping could be observed from the Compressor Room (Area 13) to the point at which the pipe turned to exit the building at the south end of the Bronze Foundry Room (Area 14). The televiewer could not access piping outside the building. Underground Surveying noted the approximate locations of former floor drain line connections with the active 8-inch iron stormwater pipe. Floor cuts for test pits were then cut above the locations identified by Underground Surveying. At the time of the utility line observations, Underground Surveying reported that the 8-inch iron stormwater pipe appeared to be clean and free of cracks or holes. Televiewer data did not indicate potential release areas (e.g., holes or cracks in the pipe) along the 8-inch iron piping except at the connections with former floor drain lines and one straight coupling in the 8-inch line.

In July 2013 Underground Surveying was able to trace the locations of the exterior active and inactive stormdrain lines using a sonde with a radio detection receiver and an in-pipe televiewer as described below. This was done by placing the sonde and televiewer within the stormdrain pipes when they were exposed by test pit excavations. The stormdrain pipes were accessed by exposing the piping in test pits and then cutting the stormdrain pipe to place the sonde and televiewer into the pipes.

Active Stormdrain Line (1960s stormdrain line)

The active stormdrain line was accessed by cutting the exposed piping at test pit TP-10 (same location as TP-4 that was excavated in December 2012). The piping in test pit TP-10 was observed to be 8-inch Orangeburg pipe approximately four feet below the ground surface. Underground Surveying placed a sonde and televiewer into the pipe after the pipe was cut by ESI. Underground Surveying observed the televiewer output and reported the piping was clean, free of sediment and in good condition. The televiewer was extended approximately 85 feet to the west inside the pipe where the stormdrain line appeared to bend; the televiewer and sonde could not travel further than 85 feet down the pipe. Test pit TP-12, was excavated beneath the sidewalk where the pipe was observed to bend and test pit TP-13 was excavated just before the sidewalk upstream (east) of where the pipe bend was observed and at the location of a pipe coupling. Based upon observations from the test pits, it appears the 8-inch Orangeburg pipe connects to an older clay pipe of similar size through a "T" joint (also made of clay). The Orangeburg pipe was cut to collect a pipe sample upstream of the clay pipe "T" and the televiewer was placed into the pipe. By extending the televiewer and sonde into the connecting clay pipe, the stormdrain line was observed to traverse from the "T" joint south to connect with the municipal stormdrain line in the street. Based upon observations from the televiewer, the clay pipe that runs out into the street appears to be free of sediment and in good condition. GZA opened a manhole at the intersection of South and East Streets, to the southwest of the Site. Two stormdrain lines entered the manhole from the east (coming from in front of the Site building). A representative of the City of New Britain's sewer department indicated the deeper stormwater line was older (installed in the 1920s) and the shallower stormwater line was younger and probably installed in approximately 1979. Underground Surveying was unable to confirm if the storm line from CFC was connected to the newer or older storm line in South Street. Because both the newer and older stormwater lines connect to the same manhole at the South Street and East Street intersection, both lines

may be active. Underground Surveying was not able to push the televiewer north from the “T” towards the building and could not confirm where the clay stormwater pipe goes under the building.

Inactive Stormdrain Line (1972 stormdrain line)

The inactive stormdrain line was accessed by cutting the exposed piping at test pit TP-11. The piping in test pit TP-11 was observed to be 8-inch Orangeburg pipe approximately 2.5 feet below the sidewalk. Underground Surveying placed a sonde and televiewer into the cut pipe. Based on observations of the televiewer by Underground Surveying, the piping was reported to be clean of sediment and in good condition. The televiewer was able to travel approximately 12 feet to the west where a void was encountered and the televiewer could travel no further. The east end of this pipe ends next to the transformer to the east; this end of the inactive stormdrain line was observed during soil remediation around the transformer in 2009. Test pit TP-14 was excavated at the approximate location of the void at the west end of the inactive storm line. Soils were removed and the Orangeburg pipe was observed to enter into a buried catchbasin. The catchbasin is approximately three feet long and with a cement top that extends into South Street under the curbing along South Street. The cement top overhangs the catchbasin on the east and west sides by approximately 0.8 feet and appears to be a cap of concrete that was installed to seal off the catchbasin when it was abandoned (date unknown). The Orangeburg pipe was removed from the catchbasin and a tape measure was placed into the opening in an attempt to measure the depth of the catchbasin. Based upon field measurements the catchbasin is approximately four feet below the ground surface. The discharge location of the catchbasin was not able to be observed, but based upon a map of the stormdrain system on file at the Town of New Britain Engineering Department which depicts the catchbasin, it likely discharges to the older municipal stormdrain line in South Street. Data collected to date suggests the inactive stormdrain line was used from 1972 to 1993 when it was abandoned when the transformer was installed; prior to CFC occupying the Site building.

Test pit soils were consistent with the Site CSM and generally consisted of fine to coarse sand (fill) overlaying silt and/or clayey-silt to silty-clay (glacial till). GZA did not observe staining or odors in test pit soils. The table below summarizes the test pit excavations.

Test Pit ID	Depth (feet)	Dimensions (feet)	Sample ID
Test Pit 1	4	3.5 x 7	(no piping observed and no samples collected)
Test Pit 2	5.5	3.5 x 8	(no piping observed and no samples collected)
Test Pit 3	5	3.5 x 10	(no piping observed and no samples collected)
Test Pit 4	5	3.5 x 7	EXT-101
Test Pit 5	3.5	Approximately 11'x9'(irregular shape)	A-14-S-1, A-14-S-2, A-14-S-3, A-14-S-4, A-14-S-5, Orangeburg Pipe
Test Pit 6	3.5	3 x 5	A-14-S-6
Test Pit 7	3.5	5 x 7	A-14-S-7, A-14-S-8, A-14-S-18 (boring)
Test Pit 8	3	4 x 5	A-14-S-14, A-14-S-19 (boring)
Test Pit 9	4	7 x 15	A-14-S-9, A-14-S-10, A-14-S-11, A-14-S-12, A-14-S-13, A-14-S-15, A-14-S-16, A-14-S-17, A-14-S-21





Test Pit ID	Depth (feet)	Dimensions (feet)	Sample ID
Test Pit 10	5	5 x 10	Orange-1 and duplicates
Test Pit 11	3.5	5 x 10	Orange-2
Test Pit 12	4.5	5 x 13	EXT-102, EXT-103, Orange-3
Test Pit 13	4.5	5 x 7	EXT-104
Test Pit 14	3	5 x 14	EXT-105, EXT-106 (boring), Orange-4 (not analyzed)

GZA collected 28 soil samples from the test pits at depths between 1.5 and 4.75 feet below grade along with Quality Assurance/Quality Control (QA/QC) samples. Samples of the Orangeburg pipe were also collected. The Orangeburg pipe appeared to be relatively porous, may have absorbed PCBs and was found to be broken or degraded where it formerly connected to floor drain lines.

Soil sampling depths were chosen to assess soil conditions around the piping connections and adjacent to the building foundation. Samples were collected immediately above piping, from inside degraded Orangeburg piping, of the Orangeburg piping, below Orangeburg piping, below 8-inch iron piping, below connections and couplings and adjacent to the building footing. Samples were collected in three-inch increments and placed in clean sample jars provided by the laboratory. Jars were placed in a cooler with ice pending delivery to a Connecticut certified laboratory for analysis of PCBs. Analytical results for soil samples collected from test pits are summarized on Table 1A. (Soil samples from previous Site investigations are summarized in Tables 1B through 1 F). If samples were not going to be analyzed within 7 days (i.e. deeper samples), they were placed in a freezer by the laboratory so that the holding time could be extended (consistent with CT DEEP and EPA protocol). After sampling, the soils and piping were placed back in the excavation they were removed from in lifts so that soils and piping were returned to their approximately original location. Excess soil and concrete removed from the excavation areas was taken off-Site for disposal at a TSCA Subtitle C facility.

Soil Borings and Surficial Soil Sampling

Six Geoprobe® soil borings were completed in the Cutting & Grinding Room (Area 12) south of the previous soil remediation area in this room. Three Geoprobe® soil borings were completed adjacent to the west wall of the Bronze Foundry Room (Area 14) and six Geoprobe® soil borings were completed adjacent to the east wall of the Bronze Foundry Room (Area 14). Five Geoprobe® soil borings for PCB sampling were completed in the Atlas tenant space with two borings located in the Atlas Metalizing Shop (Area 3) and three borings located in the Shared Loading Dock (Area 4). Five hand auger exterior soil borings and six Geoprobe® soil borings were completed north of the Aluminum Foundry Room (Area 10) and the Oil Storage Room (Area 11) near and within catchbasin CB-2. A single Geoprobe® soil boring was completed by a buried catchbasin along South Street south of the building next to the abandoned 1972 stormdrain line. Boring logs are attached in Appendix B. Boring locations are shown on Figures 2A through 2J.



Borings in the Cutting & Grinding Room (Area 12) were performed to assess the extent of PCB impacts identified in the sidewalls of the former excavation completed in December 2011 (see previous reports). Borings in the Bronze Foundry Room (Area 14) were performed to assess soils around active and abandoned storm water lines. Borings in the Atlas Metalizing area were performed to characterize site soils around areas of observed oily staining at a compressor in the Shared Loading Dock (Area 4), a hydraulic oil reservoir associated with a trash compactor in the Atlas Metalizing Shop (Area 3) and at two drum storage areas in the Atlas Storage Room (Area 1) and Atlas Metalizing Shop (Area 3). Exterior borings north of the Aluminum Foundry Room (Area 10) and the Oil Storage Room (Area 11) were performed to assess surficial soils by the back door to the Aluminum Foundry Room (Area 10) and the northern catch basins.

GZA notes testing in the Atlas Metallizing portion of the building was primarily performed to address Connecticut Transfer Act issues but select samples at five locations in the Atlas area were also tested for PCBs to confirm releases regulated under TSCA had not occurred in these areas.

Prior to drilling, the concrete floors at the interior boring locations were cored with a concrete core drill. The soil borings in the Cutting & Grinding Room (Area 12), the Bronze Foundry Room (Area 14) and six soil borings north of the Oil Storage Room (Area 11) were bored with a Geoprobe® direct push sampling rig. Five exterior soil borings north of the Oil Storage Room (Area 11) and the borings in the Atlas Metalizing portion of the building were bored using hand auger techniques or with a core barrel driven into the ground with hand tools. Soil boring locations are shown on Figures 2A through 2J. Soil descriptions for materials beneath the floor slab were consistent with the Site CSM and generally consisted of fine to coarse sand overlaying silt and/or clayey-silt to silty-clay.

Geoprobe® borings utilized macro core samplers outfitted with clean, dedicated liners (acetate sleeves) for sample collection. Soil samples were collected in three-inch increments from the acetate sleeves. Soil samples at hand auger sampling locations were collected from the barrel of the hand auger after advancing the auger in three inch intervals or from a three inch interval from a core barrel driven with hand tools. Exterior samples (EXT-1 to EXT-5) were collected at the ground surface immediately below trap rock gravel layer that covered the ground north of the building. The trap rock did not contain soil or sediment and was approximately 0.5 feet (or six inches) thick. Therefore the soil samples identified as having been collected at 0.5 to 0.75 feet below grade at locations EXT-1 to EXT-5 are considered surface samples (just below trap rock covering).

Soil samples from borings A-12-S-1 through A-12-S-6 located in the Cutting & Grinding Room (Area 12) were collected at 2.5 to 2.75 feet, 4.75 to 5 feet, and 5.75 to 6 feet below the concrete floor surface and were placed in clean laboratory provided sample jars pending analysis. The depth of the soil samples corresponded to previous sampling depths in the Cutting & Grinding Room (Area 12). Samples were collected to bracket previous sample locations and depths so that the extent of PCB soil impacts below the floor could be better defined.

Soil samples from borings A14-S-18 and A14-S-19 in the Bronze Foundry Room (Area 14) were collected from 4 to 4.25 feet below the concrete floor. These depths were

just below the top of the building footing and equal to the depth at which elevated PCBs were detected in the Cutting & Grinding Room (Area 12) during the limited source removal. Soil samples A14-S-22 through A14-S-24 were collected from just below the concrete floor in the Cutting & Grinding Room (Area 12) to define the extent of soil impacts below the floor in this room.

Soil samples were placed in clean sample jars provided by the laboratory and the jars were placed in a cooler with ice pending delivery to a Connecticut certified laboratory for analysis of PCBs. PCB analytical results for soil samples collected at the Site are summarized on Tables 1A through 1D and table 1F; recent data are presented on Tables 1A and 1F.



5.2 CONCRETE SLAB SAMPLING

Concrete floor samples were collected at 76 locations at two depths: from the surface to 0.5 inches; and 0.5 to 1 inch below grade. The concrete floor sample locations are shown on Figure 3. Concrete surfaces at each floor sample location were cleaned of foundry dust and loose dirt with a shop vacuum outfitted with a HEPA filter prior to sampling. A concrete coring machine was used to collect the concrete samples along with Quality Assurance/Quality Control (QA/QC) samples.

In December 2012, at each location, Witch Enterprises was subcontracted to advance a core barrel to a depth 0.5 inches below the floor surface. After the core barrel was backed out of the hole, GZA used a hammer drill to chip the first half inch concrete core out of the floor. The top ½-inch concrete sample chipped from the hole was collected and placed in a clean glass sample jar provided by the laboratory. The sample jars were labeled with the appropriate sampling information and were then placed in a cooler with ice pending delivery to a Connecticut certified laboratory for analysis of PCBs. After the surface to 0.5-inch sample had been collected the interior of the core hole and the area surrounding core hole was thoroughly vacuumed with a shop vacuum outfitted with a HEPA filter to remove residual dust and debris. The core barrel was decontaminated by GZA after the first sample interval by scrubbing in a soapy water solution, followed by drying, then a final wipe down of the core barrel with a hexane soaked rag/gauze pad. After decontamination, the core barrel was advanced by Witch Enterprises an additional half inch at each location to facilitate collection of the 0.5 to 1.0 inch interval of the floor. The second depth interval sample was collected by GZA, labeled and preserved similar to the first sample interval. Core barrels were also decontaminated between each sampling location.

GZA collected an additional 25 concrete floor samples in June 2013 using the procedure outline above with the exception that Witch Enterprises was not subcontracted. GZA was responsible for advancing a core barrel and collecting samples from the surface to 0.5 inches and from 0.5 inches to 1 inch. After collection of the two concrete floor samples (0 to 0.5 inch and 0.5 to 1.0 inch sample intervals) the sampling area was again cleaned with a HEPA vacuum and each core hole was restored by GZA with a concrete patch.

Analysis of samples was to be sequentially with depth depending on analytical results for the surface samples. If samples were not going to be analyzed within 7 days (i.e. deeper samples), they were placed in a freezer by the laboratory so that the holding time could be extended (consistent with CT DEEP protocol). Table 2A summarizes concrete floor

analytical results for the current investigation and Table 2B summarize prior analytical results for concrete floor samples.

5.3 CONCRETE WALL SAMPLING

GZA collected paint/concrete chip samples from interior walls of the Site building using hand tools. Twenty-seven (27) wall samples were collected four feet above the building floor, ten (10) wall samples were collected from 10-feet above the building floor, and ten (10) wall samples were collected from 15-feet above the building floor along with Quality Assurance/Quality Control (QA/QC) samples. Samples locations are shown on Figure 4.



Samples were collected using a Dremmel oscillating tool with a grout removal blade. Prior to collecting the wall samples, clean rags were utilized to wipe the sample area clean of dust and dirt to facilitate collection of samples representative of the concrete wall. CFC equipment and the floors below the wall sample locations were also cleaned prior to sampling. The blade of the Dremmel was cleaned with hexane soaked wipes prior to collection of each sample.

The open end of a clean plastic sample bag was taped to the wall around the sampling location. The blade of the Dremmel was inserted through the plastic bag and up against the wall surface. This allowed the sample location to be surrounded by plastic as the Dremmel operated. As sampling proceeded, concrete paint/concrete dust from the wall dropped into the sample bag. Taping the bag to the wall contained the paint/concrete dust during sampling and prevented concrete dust/chips from spreading to surrounding the environment. Sample locations were cleaned after sampling with a shop vacuum outfitted with a HEPA filter. The content of each sample bag was then placed into a laboratory provided glass container. Samples were placed in a cooler with ice pending deliver to the laboratory for analysis.

A double layer of disposable Nitrile gloves was worn by the sampler and the outer gloves were changed between each sample to prevent cross contamination of samples. Gloves and rags used for cleaning were placed in a labeled, covered container (drum) pending disposal as PCB remediation waste. Analytical results for the most recent wall samples are summarized in Table 3A and from prior investigations in Table 3B and Table 3C. We note that below floor concrete foundation wall samples were collected during the previous December 2011 soil remediation in the Cutting & Grinding Room (Area 12) and those foundation wall samples are included in Table 1E.

5.4 CEILING WIPE SAMPLES

The surface of the ceilings in Cutting & Grinding Room (Area 12), Oil Storage Room (Area 11), the Shared Loading Dock (Area 4) and the Aluminum Foundry Room (Area 10) is constructed of steel decking, an impermeable surface. Given the ceiling materials, wipe sampling of the surface was the appropriate method of testing to characterize PCB impacts to ceilings. GZA characterized interior ceilings by collecting ceiling wipe samples for PCBs in the Cutting & Grinding Room (Area 12), Oil Storage Room (Area 11), Shared Loading Dock (Area 4) and Aluminum Foundry Room (Area 10). Since the source of the PCB release, according to our conceptual site model, was from heat transfer oils from an embossing machine, GZA focused on sampling in the vicinity of the Cutting & Grinding

Room (Area 12) which was likely to be the location of greatest impacts from misting oil. Other wipe samples farther from the Cutting & Grinding Room (Area 12) were collected but placed on hold pending results of the ceiling wipe samples collected proximal to the Cutting & Grinding Room (Area 12). A total of 20 wipes samples were collected; 15 of these samples were submitted to the laboratory for PCB testing and five were placed on hold pending results of the 15 samples submitted to the laboratory. Ceiling wipe sample locations are shown on Figure 5. Analytical results for ceiling samples are summarized on Table 4.



Wipe samples were collected in general accordance with the standard wipe test as described in 40 CFR 761.123. Samples were collected from the prescribed 100 centimeter square area using a laboratory-prepared hexane-soaked gauze pad. Disposable nitrile gloves were changed between each sample collection to prevent cross-contamination between samples. After use, samplers, gloves, and other PPE were placed in containers on the Site pending disposal. Prior to wiping, the sample location was marked or framed by a 10 centimeter square template. The surface was wiped in two passes with a uniform pressure. The first pass was performed with a left-to-right motion across the 100 centimeter square sampling area followed by a second pass in a top-to-bottom motion across the sampling area.

Once the area was wiped, the sampling gauze was placed back in the sample jar. The sample jar was labeled, the chain of custody completed and the sample was stored in an iced cooler pending transport to the laboratory.

5.5 LABORATORY ANALYSIS

Samples were submitted to a Connecticut certified laboratory for analysis of PCBs by EPA Method 8082. Consistent with TSCA requirements, samples were extracted by the EPA Method 3504C, Manual Soxhlet extraction prior to analysis. Tables 1 through 4 summarize soil, concrete floor, wall/paint and ceiling analytical results. Laboratory analytical reports for the December 2012 and July 2013 sampling are attached in Appendix C. A total of 234 samples were collected and analyzed not including quality assurance/quality control (QA/QC) samples. Thirteen samples were submitted as duplicate samples as part of the QA/QC for this assessment.

Initially, the 0 to 0.5 inch deep concrete floor samples were analyzed by the laboratory. After results for the first round of analyses were reviewed by GZA, the deeper concrete samples were analyzed at locations where the first sample contained PCBs at or above 1.0 mg/Kg.

A summary of results for the four different media that were laboratory analyzed is described below.

Soil Sample Analysis

Cutting & Grinding Room (Area 12) Sub-Slab Soils

Fourteen of the 15 soil samples collected from below the floor of the Cutting & Grinding Room (Area 12) did not contain PCBs above the MRL as indicated in Table 1A. One soil sample from location A12-S-2 at a depth of 4.75 to 5 feet below grade had a PCB concentration of 1 mg/Kg. The A12-S-2 sample was collected south of the 2012 limited soil remediation area. Samples collected south and west of the A12-S-2 sample at similar depth did not contain PCBs above the MRL. There is no sample east of A-12-S-2 because the building foundation wall is found in this direction.



Bronze Foundry Room (Area 14) Sub-Slab Soils

Twenty-two soil samples (test pit and soil boring samples) collected from beneath the floor in the Bronze Foundry Room (Area 14) were collected along the west wall around two storm drain pipes. Samples were also collected at the depth of the building footing along the west wall which is approximately four feet below grade adjacent to the stormwater piping. Three soil samples were collected along the east wall.

Along the west wall of the Bronze Foundry room, fifteen of the 22 samples collected from below the floor had reported concentrations of PCBs (see Table 1A). Of the 15 samples with PCBs, nine samples had concentrations between 1 and 6,100 mg/Kg. which exceed the 1 mg/Kg PCB unrestricted use level. We note that the sample containing PCBs at 6,100 mg/Kg was a piece of the degraded, abandoned Orangeburg pipe that had soil stuck to it at the north end of the Bronze Foundry Room (Area 14). The soil sample with the highest PCB concentrations from this area had 710 mg/Kg PCBs. Soils from immediately below the Orangeburg pipe at location A14-S-4 (north end of the Bronze Foundry Room - Area 14) and A14-S-13 (south end of Area 14) contained 420 and 710 mg/Kg PCBs, respectively. Other soil samples from the Bronze Foundry Room (Area 14) that exceeded the 1 mg/Kg PCB criteria ranged in PCB concentrations from 1 to 24 mg/Kg.

Soil samples collected at the depth of the building footing (A-14-S-18, A-14-S-19, and A-14-S-20 at 4 to 4.25 feet below grade) did not contain PCBs above the MRL.

Soils samples collected immediately beneath the concrete floor (A-14-S-22, A-14-S-23, and A-14-S-24) along the east wall of the Bronze Foundry room did not contain PCBs above the MRL.

Exterior Soils South of Building

Six soil samples were collected from the test pits including three soil samples collected from a boring at test pit location TP-14 using a Geoprobe®, the boring was completed after test pit TP-14 was backfilled and extended to depths below the bottom of the test pit. PCBs were not detected above the MRL in soil samples EXT-101, EXT-103, EXT-104, and EXT-106. PCBs were detected above MRLs and the 1 mg/Kg unrestricted use criteria at EXT-102 and EXT-105. Both EXT-102 and EXT-105 was collected from below the Orangeburg piping. Samples of Orangeburg piping were also collected at three



locations (Orange-1, Orange-2 and Orange-3 on Figure 2C) to assess the extent of impacts to the piping. PCBs were detected up to 37,000 mg/Kg (duplicate sample of Orange-1 found just west of the current CFC dust collector equipment) in the piping. We note pieces of pipe collected at Orange-1 were analyzed three times. The original Orange-1 sample contained 23,000 mg/Kg PCBs. A duplicate sample of Orange-1 was analyzed for QA/QC purposes and was found to contain 37,000 mg/Kg PCBs. Because the Orange-1 sample was found to contain such high levels of PCBs, GZA requested the laboratory analyze an additional aliquot of this sample (additional pieces of pipe taken from the same sample jar as the original Orange-1 sample) as a “re-run” of the sample. The laboratory performed the re-run analysis and the result was 14,000 mg/Kg PCBs. Based upon conversations with Phoenix Laboratories, the wide variation in the results is due to the heterogeneity of the sample matrix (fibrous asphaltic pipe may absorb PCBs at different rates depending on the natural variation in the pipe material).

We note that a 2002 zoning location survey (which is based upon a September 1993 A-2 survey by Juliano Associates), indicates the southern CFC property boundary line is located at the northern edge of the sidewalk that runs along South Street, south of the Site building. Therefore, certain soil samples and pipe samples collected beneath and south of the sidewalk (in the narrow strip of grass between the sidewalk and the street curbing) may be located within the right of way for South Street and are therefore just off the Site to the south.

Exterior Surficial Soils North of Building

In December 2012, five soil samples and one catch basin sediment sample were collected north of the building near a back door and a stormwater catch basin. PCBs were not detected above the MRL in soil samples EXT-1 through EXT-3 which are north of the Aluminum Foundry Room (Area 10) in the vicinity of a back door (Table 1A). No PCBs above the MRL were detected in sample EXT-4 which was obtained outside and north of the center of the Oil Storage Room (Area 11). However, PCBs were detected in sample EXT-5 at 2.6 mg/Kg; this sample was located closest to the north catch basin near the northwest corner of the eastern most building addition that includes the Compressor Room (Area 13) and the Bronze Foundry Room (Area 14). PCBs were also detected in the catch basin sediment sample at 2.2 mg/Kg. Both the EXT-5 and catch basin sediment sample exceed the 1 mg/Kg unrestricted use criteria.

In July 2013, ten soils samples (including one from below the catchbasin) were collected from six borings. PCBs were not detected above MRL in soil samples EXT-8 (0.5-0.75), EXT-9 (0.75-1), EXT-10 (1.75-2), EXT-10 (2.75-3), and Catch Basin North (2.75-3). PCBs were detected above MRL in EXT-6 (0-0.25), EXT-6 (0.25-5), EXT-7 (0-0.25), EXT-9 (0.5-0.75), and EXT-10 (0.25-0.5). PCBs detected in EXT-6 (0-0.25) and EXT-9 (0.5-0.75) were in exceedance of the 1 mg/Kg unrestricted use criteria. The soil samples that contained PCBs greater than 1 mg/Kg were collected at the ground surface (in some cases ground surface was considered just below a layer of trap rock that did not contain soil) and deeper samples indicated PCBs were less than 1 mg/Kg.

Atlas Metalizing Sub-Slab Soils

Seven soil samples within the Atlas Metalizing portion of the building were submitted for PCBs. No PCBs above the MRL were detected in the seven soil samples (Table 1F) indicating no release of PCBs to below-floor soils in this portion of the building including the Shared Loading Dock (Area 4).

Concrete Floor Sample Analysis



Seventy-six floor samples locations were sampled (at two depths) to further delineate PCB floor impacts and close data gaps. Laboratory reports for samples collected from the concrete floors are summarized on Table 2A. Prior concrete floor testing results are provided in Table 2B. Results from the 76 floor surface samples (0 to 0.5 inches below grade) indicate PCB concentrations from non-detect to 110 ppm. Thirty-three of these samples were greater than one ppm. The samples with the highest concentrations were limited to the southern portion of the building in the mold storage portion of the Aluminum Foundry Room (Area 10), the western portion of the building near the Shared Loading Dock (Area 4) dividing CFC and Atlas Metalizing operations, and the Bronze Foundry Room (Area 14) shown on Figure 3. According to a past employee of the previous Site occupant, a second (newer) embossing machine was located in the Bronze Foundry Room (Area 14) along the east wall in the late 1970s to 1980s.

Samples from 0.5 to 1 inch below the floor surface were submitted for analysis at locations where PCB results for the surface samples (0-0.5 inches) were greater than 1 mg/Kg. The 0.5 to 1 inch sample from A-14-F-4 was not submitted because this location was coincident with test pit, TP-9, where the concrete was removed for test pit excavation. Results from the deeper samples show PCBs impacts are limited to the first half inch of the concrete floor at the locations tested with the exception of locations A-14-F-5 and A-14-F-18 on the east side of the Bronze Foundry Room (Area 14). At these locations, PCB concrete floor samples from the 0.5 to 1 inch interval exceeded the 1 mg/Kg unrestricted use criteria. According to the above referenced past employee, this second embossing machine was newer and did not leak like the former machine, which may be the reason, that soil samples collected from below the floor at these locations (along the east wall of the Bronze Foundry Room - Area 14) were non-detect for PCBs.

Wall Sample Analysis

Laboratory reports for samples collected from the concrete walls are summarized on Table 3A. Prior results for wall testing are provided in Tables 3B and 3C. The greatest concentration of PCBs in wall samples (150-880 mg/Kg) was observed on the east side of the Cutting & Grinding Room (Area 12). Elevated PCB concentrations in wall samples from the Aluminum Foundry Room (Area 10) (west of the Cutting & Grinding Room - Area 12) and the Shared Loading Dock (Area 4) were also noted. Significantly lower concentrations of PCBs in wall samples (0.95-18 mg/Kg) were found in the Bronze Foundry Room (Area 14) to the east of the Cutting & Grinding Room (Area 12) and in other parts of the Site building. PCBs impacts were observed at the 4, 10, and 15 foot intervals up the wall in the Aluminum Foundry Room (Area 10), the Cutting & Grinding Room (Area 12) and the Bronze Foundry Room (Area 14). Data is summarized on Table 3A through 3C and sample locations are shown on Figure 4. In general, PCBs in wall

samples decreased slightly with increasing height on the wall. However, samples high on the wall still had elevated PCB concentrations even if they are somewhat lower than samples collected four feet off the floor.

Ceiling Wipe Sample Analysis

Fifteen of the twenty ceiling wipe samples were submitted to the laboratory for PCB analysis. Ceiling wipe sample data are summarized on Table 4 and shown on Figure 5. Laboratory results indicated 13 of the 15 samples did not contain PCBs above the MRL. Sample A4-Ceil-1 from the ceiling in the Shared Loading Dock (Area 4) contained PCBs at 0.8 $\mu\text{g}/100\text{ cm}^2$ and sample A10-Ceil-1 in the Aluminum Foundry Room (Area 10) which is just west of the Oil Storage Room (Area 11) contained PCBs at 0.5 $\mu\text{g}/100\text{ cm}^2$. Both of the detected PCB concentrations in wipe samples were below the criteria for unrestricted use.



5.6 EXPOSURE ASSESSMENT

Site characterization data collected to date indicate PCBs are present in soils and in building materials. However, the distribution of the PCBs and the nature of Site operations indicate exposure to Site workers and visitors is relatively low at this time.

Previous exterior soil remediation south of the Site building removed soils in proximity to the ground surface. Remaining soil impacts are found below the Site building, at depths several feet below grade and/or in areas not accessed by Site workers (i.e., the narrow, fenced alley north of the Oil Storage Room (Area 11) near the northern yard drain). Therefore, the exposure pathway for impacted soils is incomplete and the exposure risk from soils for Site workers and/or visitors is negligible at this time. We note that activities to address the elevated PCB concentrations are still necessary to meet the relevant regulatory criteria (see Section 4.0 and 5.1, above).

Assessment of Atlas Space and Shared Loading Dock

Low level PCBs (up to 7 mg/Kg PCBs) were detected in concrete chip samples from floors in the Atlas area (Areas 1 and 3) and Shared Loading Dock (Area 4). The Shared Loading Dock (Area 4) is also used by Atlas workers and floor samples from the Shared Loading Dock (Area 4) contained PCBs at up to 4 mg/Kg. Paint/wall chip samples in the Atlas space (Areas 1 and 3) contained up to 12 mg/Kg PCBs but the paint in the Atlas space appears to be excluded PCB product with PCBs less than 50 mg/kg (generally PCB levels are less than 15 mg/kg in the Atlas space). Paint/wall chip samples in the Shared Loading Dock (Area 4) contained up to 58 mg/Kg PCBs. Atlas workers operate machines and load and unload materials in the shared loading dock wearing gloves and work clothes and do not, generally, come in direct contact with walls that contain elevated PCBs. Therefore, exposure risk is relatively low for Atlas workers considering current operations.

Additional floor wipe sampling was completed in January 2014 in the Shared Loading Dock space (Area 4) and the Atlas storage space and shop space (Area 1 and Area 3, respectively) to more fully assess surface concentrations of PCBs on floors. The additional floor wipe samples were collected because PCBs in floors appear to have been

tracked into the Shared Loading Dock (Area 4) and the Atlas spaces (Areas 1 and 3) from the Commercial Foundry side of the building. The floor wipe samples indicated compliance with porous surface criteria in TSCA (see further description of January 2014 floor wipe sampling below).

Assessment of CFC Space

Although there are elevated concentrations of PCBs in the CFC space, exposure to workers when CFC was operational was considered minimal. The CFC operations, however, were terminated in July 2014. Prior to termination of operations, Mr. Voos indicated that CFC workers wore work gloves and boots, changed into work shoes and uniforms in the CFC employee locker rooms and left their work shoes and uniforms in lockers on the premises (they did not bring work clothes home). Workers typically did not come in contact with walls during routine industrial foundry operations and they showered after work and before leaving the Site. A portion of the floors in the Cutting & Grinding Room (Area 12), where the highest PCB concentrations were found during GZA's characterization, has been removed and replaced to eliminate potential worker exposure to the highest PCB concentrations in building materials. Also, floor areas in and just west of the Cutting & Grinding Room (Area 12) have been encapsulated with an epoxy coating to eliminate a potential exposure pathway to the next highest (remaining) concentrations of PCBs in concrete floors. However, we note that new data recently collected in July 2013 indicate elevated PCB concentrations in concrete floors in a small area at the southeastern portion of the Bronze Foundry Room (Area 14). The areas within the Bronze Foundry Room (Area 14) that have higher PCBs in floors will be addressed as part of the remedial plan that is being prepared for the Site. PCB concentrations in floors in other parts of the CFC portion of the building exhibit significantly lower concentrations of PCBs on the order of 1 to 10 mg/Kg.



As part of the characterization, and to better assess building occupant exposure scenarios, CFC requested GZA complete wipe sampling of walls and floors in and around the Cutting & Grinding Room (Area 12) (where the highest PCB concentrations in concrete chip samples were found) and indoor air testing in various rooms on the CFC side of the Site building. On March 22, 2011, seven wipe samples (four from walls and three from floors) and seven indoor air samples were collected by GZA. Results for the wipe samples are summarized in Tables 3C and 3D, respectively. Figure 4A indicates wipe and air sample locations in and around the Cutting & Grinding Room (Area 12) and Figure 4B indicates wipe and air samples away from the Cutting & Grinding Room (Area 12).

Certain wipe samples in the Cutting & Grinding Room (Area 12) had PCB concentrations above the $10 \mu\text{g}/100\text{cm}^2$ PCB criteria for decontaminated and/or remediated surfaces allowed in the TSCA regulations (see Figures 4 and 4A). However, wipe sample PCB concentrations decreased rapidly to below $10 \mu\text{g}/100\text{cm}^2$ away from the Cutting & Grinding Room (Area 12) where the highest PCBs were detected in concrete samples from walls and floors. Sample Wipe-7 (shown on Figure 4A) had $4.6 \mu\text{g}/100\text{cm}^2$ PCBs while being in close proximity to a wall chip sample W-29 (collected 1 to 2 feet up the wall) that had 58 mg/Kg PCBs. The Wipe-1 sample had $7.8 \mu\text{g}/100\text{cm}^2$ PCBs while being in close proximity to wall chip sample Paint 18 that had 150 mg/Kg PCBs. Wipe samples Wipe 21 and Wipe 25 through Wipe 29 had less than $10 \mu\text{g}/100\text{cm}^2$ PCBs while being in close proximity to wall chip samples that contained between 380 and 3.4 mg/Kg PCBs. As such,

it appears that wipe samples indicate PCB concentrations are below TSCA regulatory criteria for most wall surfaces away from the Cutting & Grinding Room (Area 12). Laboratory reports for March 2011 wipe samples are included in Appendix C. To further evaluate the relationship between wall chip samples and wipe sample results, GZA proposed additional sampling.

In May 2011, GZA collected additional wall chip samples in the Aluminum Foundry Room (Area 10), the Oil Storage Room (Area 11), the Cutting & Grinding Room (Area 12) and the Bronze Foundry Room (Area 14) as shown on Figures 4 and 4A. At 10 of the chip sample locations, wall wipe samples were also collected. In general, wipe samples above the 10 $\mu\text{g}/100\text{cm}^2$ PCB surface criteria were found in the Cutting & Grinding Room (Area 12) with wipe sample results ranging from 7.9 (sample WIPE-22) to 110 (WIPE-5) $\mu\text{g}/100\text{cm}^2$ PCBs, while wipe samples from other rooms (adjacent to the Cutting & Grinding room) were found to contain between 3.3 and 12 $\mu\text{g}/100\text{cm}^2$ PCBs. The concentrations of PCBs in wall samples appear to vary over short distances and the variation may be due to uneven impacts to walls from machine oil mists or splatter (spills).

Indoor air testing results for seven locations in the CFC portion of the building indicated no PCBs detected (Table 3D). Three indoor air samples were collected in the Cutting & Grinding Room (Area 12) (Figure 4A) and four samples were collected west of the Cutting & Grinding Room (Area 12) but still within the CFC building space (Figure 4B). Laboratory reports for indoor air samples are included in Appendix C. Results indicate detection limits for the indoor air testing were below the OSHA and NIOSH recommended levels for PCBs in air in commercial/industrial settings. No exposure pathway by inhalation was identified by the indoor air data.

In addition to the above testing, GZA collected floor wipe samples from the Atlas tenant space storage room and shop (Area 1 and Area 3, respectively) and the shared loading dock (Area 4) on January 20, 2014. Wipe sample locations are shown on Figure 4C and floor wipe samples analytical reports are included in Appendix C. Three (3) floor wipe samples were collected on the floor of the shared loading dock near locations where concrete chip sampling had previously indicated the highest levels of PCBs in floor chip samples (1.5 to 3.9 mg/Kg PCBs in concrete) in this portion of the building. Fourteen (14) floor wipe samples were collected in the Atlas tenant spaces at new locations and immediately adjacent to previous concrete chip sample locations that had indicated PCBs in concrete floors between non-detected and 6.9 mg/Kg PCBs. One wipe sample from the shared loading dock (Area 4) contained 2.6 $\mu\text{g}/100\text{cm}^2$ PCBs. Three samples from the south side of the Atlas shop room (Area 3) contained 1.2 to 3.9 $\mu\text{g}/100\text{cm}^2$ PCBs and 2 samples from the Atlas storage room (Area 1) contained 1.1 to 1.5 $\mu\text{g}/100\text{cm}^2$ PCBs. The remaining 9 floor wipe samples from the Atlas storage room (Area 1) and shop (Area 3) did not have PCBs above laboratory detection limits. The results for the wipe samples indicate the surfaces tested were below the 10 $\mu\text{g}/100\text{cm}^2$ PCBs cleanup level for continued use of porous surfaces referenced in Section 761.61(a)(4) of the TSCA regulations (for Self-implementing remediation).

Based on the wipe sample results and indoor air sample results collected to date, risk to Site occupants and workers from PCBs in building materials is low.

6.0 QUALITY ASSURANCE/QUALITY CONTROL

Phoenix Environmental Laboratories performed the laboratory analyses for this project. The soil, wipe and building materials samples were extracted by Method 3540, Manual Soxhlet method, and analyzed for polychlorinated biphenyls by EPA Method 608/8082. Additional analyses performed (to address CT Transfer Act issues) included petroleum hydrocarbons, volatile organic compounds and semi-volatile organic compounds. Quality control procedures were adhered to as required by the method, and by CTDEEP Reasonable Confidence Protocols (RCPs). Laboratory data packages included the results of analyses of surrogate recoveries, laboratory control samples (LCS), duplicate LCS (LCSD), and field duplicate samples. Phoenix Environmental Laboratories additionally supplied a RCP QA/QC Certification Form and a Case Narrative explaining the results of all quality control procedures and techniques employed by the laboratory.



GZA performed a Data Quality Assessment and Usability Evaluation of the laboratory data. Based on this review of the reported data and laboratory quality control results, the data are found to be representative of Site conditions and are found to be useable as reported for the intended purpose of assessment of PCB concentrations. No significant quality control issues were apparent. GZA did not identify data that would have to be qualified in its use. QA/QC summaries for each laboratory report are tabulated and included as Appendix D.

In some samples, the laboratory reported a specific Aroclor as no longer recognizable due to weathering. This is denoted with an asterisk (*) in the lab reports and the report tables. The lab reports note that in these cases PCB patterns most closely resemble Aroclor 1248 or a mixture of Aroclors 1248 and 1254.

Twelve duplicate samples were analyzed to evaluate data reproducibility. Samples with reported PCB concentrations were selected as duplicates. Eight samples had results that were within QC limits for duplicate samples. Four duplicate samples reportedly contained PCBs at varying levels, which is likely due to the heterogeneity of the sample matrices (soil, Orangeburg pipe) and the nature of the distribution patterns at the Site.

7.0 CONCLUSIONS AND RECOMMENDATIONS

Additional assessment of exterior soils, below building soils, concrete floors, paint/walls and ceilings for PCB impacts was conducted by GZA to supplement previous Site characterization activities. The goal of the supplemental assessment was to sufficiently characterize PCBs at the Site so that a TSCA remedial action plan could be developed.

We note that Site characterization has been performed consistent with TSCA regulations to identify the distribution of PCBs in Site soils, groundwater and building materials so that a remedial plan can be developed.

At this time, a RAP is being developed for the Site that contemplates demolition of the CFC portion of the building.

Exterior Soil PCB Impacts and Stormwater Piping Impacts



Exterior soil investigations indicated that low level PCB impacts from 0.45 to 2.6 mg/Kg are present in the vicinity of the stormwater catch basins north of the Oil Storage Room (Area 11). Data indicate the PCB impacts are limited to less than 4 feet below grade in the immediate vicinity of the catch basin closest to the building and are limited to less than a foot below ground surface away from the catchbasin. Surficial PCB impacts in this area have been defined by the recent sampling and analyses and the impacts do not extend off-Site. Also sediment in the catch basin had PCBs at 2.2 mg/Kg but a soil sample collected below the sediment at 2.75 to 3.0 feet below grade did not contain PCBs (ND<0.21 mg/Kg). Our investigation indicates the basin has discharge piping that connects to the storm water line running beneath interior the Bronze Foundry Room (Area 14) but also has a gravel bottom which allows some infiltration of storm water. Soil in the vicinity of the northern catch basin closest to the building will be addressed in the pending RAP. The impacted area appears to be on the order of 12 x 10 x 4 feet deep or approximately 16 to 20 cubic yards of soil.

Based on data from this study, the on-Site Orangeburg stormwater pipe and certain surrounding soils that remain in place south of the Site building between the building and the connection to the main municipal stormwater piping that is below South Street are impacted with PCBs. Testing of a piece of the degraded Orangeburg pipe from below the Site building (Bronze Foundry Room - Area 14) indicated a maximum concentration of 6,100 mg/Kg PCBs in the pipe. Testing of downstream piping south of the building indicated a maximum PCB concentration of 37,000 mg/Kg for exterior stormwater piping. Soils beneath the stormwater piping (1960s Orangeburg pipe) south of the building had up to 30 mg/Kg PCBs. The soil sample with 30 mg/Kg PCBs was collected from under a stormwater "T" connection below the sidewalk. We also note that a sediment sample collected in December 2011 from inside an abandoned floor drain pipe in the Cutting & Grinding Room (Area 12) (during the limited interior source removal excavation) contained 47,200 mg/Kg PCBs and analytical results indicate the sediment sample, the Orangeburg pipe samples and the surrounding soil samples from the floor drain and stormwater systems contained PCBs reported as Aroclor 1248. The common Aroclor content of the samples suggests a common source.

A 2002 zoning location survey map for the Site, which is based upon a September 1993 A-2 survey by Juliano Associates, indicates the Site boundary is the northern edge of the sidewalk along South Street. PCB impacts are known to extend off the Site under the sidewalk to the south based on the available information that identifies the southern property boundary.

Soil PCB Impacts Below Buildings

Based on results for Orangeburg pipe testing, PCB impacts to the Orangeburg stormwater piping and surrounding soils below the floor in the Bronze Foundry Room (Area 14) will require corrective action. Soil impacts in the vicinity of the Orangeburg pipe ranged from non-detected to 710 mg/Kg. The impacts around the Orangeburg pipe appear to be concentrated at locations where the older pipe was broken and also appear limited to a corridor that is 3 to 4 feet wide (from the building wall) and less than 4 feet deep. We estimate the total soil volume in this area that may require remediation to be approximately

115 x 4 x 4 feet deep or approximately 65 to 75 cubic yards. However, confirmation testing may indicate some soils along this corridor do not contain actionable concentrations of PCBs. Based on the data collected to date for soils below the floor of the Bronze Foundry Room (Area 14), it is GZA's opinion that additional soil testing is not warranted.

Sub-slab soil samples from the Atlas Metalizing area did not contain PCBs above the MRL and no PCB releases to soils below the Atlas tenant space have been identified. We do not anticipate corrective action will be required for the Atlas tenant space to address TSCA requirements. However, we note that corrective action will be required under the CT Property Transfer Act requirements to address petroleum releases to below floor soil under the Atlas tenant space. Also, concrete floors and walls in the Atlas space are impacted by PCBs as noted below.



Concrete Floor PCB Impacts

New data for concrete floors east and west of the Oil Storage Room (Area 11) and Cutting & Grinding Room (Area 12) indicate PCB impacts to floors are adequately characterized. PCB impacts above the 1 mg/Kg TSCA unrestricted use criteria are found in the upper half inch of concrete in the majority of locations in the Site building west of the Cutting & Grinding Room (Area 12) (including the Atlas tenant space). Floor samples west of the Oil Storage Room (Area 11)/Cutting & Grinding Room (Area 12) collected from 0.5 to 1 inch deep (second sample depth) did not contain PCBs above 1 mg/Kg. Based on the data patterns, it appears PCBs in concrete floors west of the Cutting & Grinding Room (Area 12) may be a result of tracking of PCBs from the Oil Storage Room (Area 11)/Cutting & Grinding Room (Area 12).

Concrete floors in Area 13 (Compressor Room) and at the north and west sides of the Bronze Foundry Room (Area 14) (Bronze Foundry Room) do not appear to be impacted with PCBs above the 1 mg/Kg regulatory criteria except for a limited area at the southeastern portion of the Bronze Foundry Room (Area 14). Impacts in the Bronze Foundry Room (Area 14) at sample locations A-14-F-5 and A-14-F-18, (southeast corner of the Bronze Foundry Room - Area 14) extend at least one inch into the floor based on the available data. A second, newer, former embossing machine was located in the vicinity of location A-14-F-18. The newer embossing machine did not leak like the old machine according to a past employee interviewed by GZA. The PCB impacts noted in the Bronze Foundry Room (Area 14) could be from tracking or from storage of PCB machine oils in this area.

No hot spots or high-concentration areas have been detected to-date for areas west of the Oil Storage Room (Area 11)/Cutting & Grinding Room (Area 12) and impacts at the 0.5 to 1.0 inch depth in floors in the western part of the Site building are less than 1 mg/Kg PCBs (based on available data). However, PCB impacts to floors in the eastern portion of the Bronze Foundry Room (Area 14) are somewhat higher and complete floor removal may be required for the highest concentrations of PCBs in floor in the Bronze Foundry Room (Area 14).

The concrete floors in the Cutting & Grinding Room (Area 12) and Oil Storage Room (Area 11) appear to have the highest concentrations of PCBs (up to 720 mg/Kg). We note that a portion of the Cutting & Grinding Room (Area 12) floor with higher concentrations

of PCBs was previously remediated in December 2011 and replaced with a new floor. Previous testing results indicate certain deeper floor samples (excluding the new floor) collected at 0.5 to 1 inch below the surface in the Cutting & Grinding Room (Area 12) contain elevated PCBs above 1 mg/Kg.

Wall/Paint PCB Impacts

Supplemental testing of paint/wall samples has indicated the highest concentrations of PCBs to be in the Cutting & Grinding Room (Area 12) and Oil Storage Room (Area 11), with moderate to higher levels of PCBs in the Aluminum Foundry Room (Area 10) and the Shared Loading Dock (Area 4) and lower PCB concentrations in other parts of the building.



PCB concentrations in paint/wall samples from the Shared Loading Dock (Area 4) (sample A4-PW-2), the Aluminum Foundry Room (Area 10) (several samples) and the Cutting & Grinding Room (Area 12) (many samples) exceed 50 mg/Kg and appear to be related to the release of machine oils in the Cutting & Grinding Room (Area 12). Likewise, paint/wall samples in the Oil Storage Room (Area 11) appear elevated and related to the PCB bearing machine oil releases from the embossing machine formerly in the Cutting & Grinding Room (Area 12) (possibly by misting of machine oils). PCBs in the walls of the Shared Loading Dock (Area 4) may be from handling of machine oils in this area during shipping and receiving of virgin or waste oils. As such the walls in the Shared Loading Dock (Area 4), the Aluminum Foundry Room (Area 10) and the Cutting & Grinding Room (Area 12) may require remediation under TSCA.

In Bronze Foundry Room (Area-14), PCBs were detected in wall samples up to 18 mg/Kg. It is possible a second former embossing machine was located in the Bronze Foundry Room (Area-14) and misting from this second embossing machine caused the PCBs impacts to walls in this area.

Other walls of the Site building also contain PCBs but at levels that do not exceed 50 mg/Kg. Typically these walls contain PCBs at 10 to 15 mg/Kg.

Although it is possible that walls away from machine oil releases contain PCBs from paint that was historically applied to walls prior to CFC occupancy, it is also possible that misting of oil from the embossing machine impacted other walls in the Site building but to a lesser degree than impacts found in the Shared Loading Dock, the Aluminum Foundry Room and the Cutting & Grinding Room (Areas 4, 10 and 12, respectively). Paint on walls away from Areas 4, 10 and 12 could potentially be considered “excluded PCB product” that would not require remediation under the TSCA program, however, the data collected to date at the Site does not provide a clear means for separating impacts from embossing machine oils from PCBs in paint (we note that PCB Aroclors detected in wall samples away from the embossing machine locations were similar to those detected in the Cutting & Grinding Room (Area 12) but also similar to that found in some paints containing PCBs). Regardless of the source of PCBs in wall samples, appropriate disposal of wall materials in a manner consistent with TSCA regulations is required when the building walls are demolished. Disposal options for excluded PCB products (i.e., paint originally manufactured with PCBs greater than 1 mg/kg but less than 50 mg/kg) and PCB

remediation waste (surfaces with 1 mg/kg or greater PCBs that were impacted from a spill of material with greater than 50 mg/kg PCBs) will be outlined in the RAP.

Ceiling PCB Impacts

Ceiling wipe samples with PCBs greater than the unrestricted use criteria of 10 µg/100 cm² for non-porous surfaces were not detected in the Site building. Since the surface of the ceiling in Cutting & Grinding Room (Area 12) and Aluminum Foundry Room (Area 10) (where ceiling samples were collected and analyzed) is steel decking, wipe sampling of the surface was the appropriate method of testing to characterize ceilings. Minor PCB impacts of less than 1 µg/100 cm² were detected in two ceiling samples; one ceiling sample with detected PCBs was in the Cutting & Grinding Room (Area 12) and one sample was in the Aluminum Foundry Room (Area 10) just west of the Cutting & Grinding Room (Area 12). De minimis PCB impacts to ceilings in the areas with the highest soil, floor and wall PCB impacts suggests that ceilings are not significantly impacted and do not require remediation for PCBs. No further characterization is recommended for ceiling in the Site building.



7.1 UPDATED CONCEPTUAL SITE MODEL

New data obtained during this study was used to update the CSM for the Site. The release mechanism for PCBs that have impacted the building interior and Site soils remains essentially the same: historical surficial spillage, handling or possibly misting of machine oils for the former embossing machine has led to PCB impacts in the Cutting & Grinding Room (Area 12), the Oil Storage Room (Area 11), the Shared Loading Dock (Area 4), the stormwater piping at the east end of the Site and possibly floors and below floor soils in the southern portion of the Bronze Foundry Room (Area 14). The former embossing machine located in the Cutting & Grinding Room (Area 12) (and possibly a second embossing machine in the southern half of the Bronze Foundry Room - Area 14) used heated oil in liquid filled rollers for thin film embossing. The embossing machine was likely located along the east wall of the Cutting & Grinding Room (Area 12) based on the distribution of PCBs in concrete floor and wall samples and below floor soil samples. In addition, PCB-bearing oils may also have been stored in the Oil Storage Room (Area 11) and the Shared Loading Dock (Area 4) where they could have been spilled to the floor during routine handling of drummed oils. Concrete floor data for the southern portion of the Bronze Foundry Room (Area 14) indicates possible use or handling of PCB bearing machine oils and possibly the location of a second embossing machine. GZA notes, groundwater has been tested for PCBs and no PCBs were detected in groundwater.

Cutting and Grinding Room Sub-Slab Soils

PCBs from the former embossing machine or from storage of PCB-bearing oils appear to have migrated below the concrete floor slab. Seams where the floor slabs meet the foundation walls appear to be a pathway for surface spills to migrate into soils beneath the floor slab. Areas of heavy staining were observed below the floor on the east foundation wall at the south end of the remedial excavation and PCB-bearing oils appear to have spread into soils around the foundation wall and footing. Site soils are dense and relatively impermeable (glacial till with significant silt and clay) and PCBs are relatively immobile in dense soil. However, soils in the immediate vicinity (within approximately one to two feet) of building

foundation walls and footings are more permeable fill material. Because of these characteristics, no significant migration of PCB impacts seemed to have occurred in the sub-slab soils other than in the vicinity of foundation walls and footings.

Storm Drain System

A sample of sediment collected from inside an abandoned floor drain pipe at the north end of the previous interior, below-floor, soil remediation area in the Cutting & Grinding Room (Area 12), indicates PCB releases infiltrated the floor drain system below the Cutting & Grinding Room (Area 12). Floor drains in the Cutting & Grinding Room (Area 12) and adjacent the Bronze Foundry Room (Area 14) formerly discharged to a north-south running 1960s Orangeburg stormwater pipe located beneath the floor slab in the Bronze Foundry Room (Area 14). The currently inactive 1960s Orangeburg pipe beneath the building is part of a former stormwater system. The 1960s Orangeburg pipe is approximately six inches to one foot from the west wall of the Bronze Foundry Room (Area 14) and appears to exit the west wall of the building at the south end of the Bronze Foundry Room (Area 14). Based upon test pits and borings along the west wall of the Bronze Foundry Room (Area 14), it appears portions of the Orangeburg pipe (below the building) were destroyed or removed and are no longer present. Interior soil results from above and below the Orangeburg piping and samples of the pipe material indicate PCBs have impacted the pipe and soils around the pipe. A sample of the Orangeburg pipe contained PCBs at 6,100 mg/Kg. However, soil impacts near the Orangeburg pipe appear to be limited in depth and are in close proximity to the drain pipe. Three samples (A-14-S-18, A-14-S-19, and A-14-S-20) collected at the depth of the building footing at approximately 4 feet below grade, did not contain PCBs. Based on these data, PCB impacts do not appear to extend below the building footing in the Bronze Foundry Room (Area 14) in the vicinity of the abandoned Orangeburg pipe.

Once outside the building, the 1960s Orangeburg pipe ran generally parallel to the building's south wall for approximately 145 feet until it turned south and connected to the older municipal stormwater line below South Street.

The 1960s Orangeburg pipe beneath the building received floor drain discharges and stormwater until the early 1970s when a new 8-inch diameter cast iron storm drain line (iron drain line) was installed four to five feet east of the 1960s Orangeburg pipe as part of the construction of the eastern-most building addition. At the time of the iron drain line installation, the Cutting & Grinding Room (Area 12) floor drains were extended to the new cast iron storm drain pipe and disconnected from the 1960s Orangeburg drain line. The new the Bronze Foundry Room (Area 14) floor drains were connected to the iron drain line at the time the addition was constructed in 1972.

The 1972 iron drain line was installed beneath the building, exited the building at the southwest corner of the Bronze Foundry Room (Area 14) and extended approximately three feet away from the building, at which point Orangeburg pipe was installed. The 1972 Orangeburg pipe ran another 50 feet to a catchbasin on South Street located south of the currently fenced in area where the CFC dust collectors are located (see Figure 2A and 2C). After exiting the building, Orangeburg pipe was used instead of iron pipe, which is consistent with building practices and codes in the 1970s according to ESI staff experienced in sewer pipe installation. Therefore, in 1972, the stormdrain line from three feet out of the building to the South Street catchbasin (now abandoned) was Orangeburg pipe (as observed in TP-11 and



TP-14). Stormwater entering the former South Street catchbasin is inferred to have flowed to the older municipal stormwater line below South Street.

It appears that the iron drain pipe under the Bronze Foundry Room (Area 14) and the 1972 Orangeburg pipe discharged stormwater and floor drain water into the former catch basin connected to the older municipal storm line from 1972 to at least 1989 (date of construction of a new municipal storm line beneath South Street) or until 1993 (date when a new transformer was installed for CFC). At the time the new transformer was installed in 1993, the active stormwater drain was re-routed from the south end of the 1972 iron drain line back into the exterior portion of the existing 1960s Orangeburg stormdrain line, thereby still discharging into the older storm line below South Street.



During the entire period that the embossing machines using PCB-bearing oils were in operation, stormwater and floor drain water would have discharged into the stormwater lines below South Street, either through the original 1960s Orangeburg pipe or through the 1972 iron drain line and Orangeburg pipe. The floor drains were sealed prior to CFC acquiring the building in 1993; however, stormwater (primarily from roof drains and two area drains to the north of the building) continues to flow through the 1972 iron drain pipe.

The end of the iron drain line is connected to the 1960s Orangeburg pipe by a short (22 foot) length of PVC pipe routed around the north side of the current transformer vault. The 1960s Orangeburg piping runs approximately 115 feet to the west where it connects to a clay pipe at a “T” joint. The clay pipe comes out from under the middle of the CFC building and runs to the south to the municipal stormline beneath South Street. Piping orientation is shown on Figures 2A and 2C.

Testing of a piece of the degraded Orangeburg pipe from below the Site building (the Bronze Foundry Room - Area 14) indicated 6,100 mg/Kg PCBs. A sample of exterior piping downstream of the building contained 37,000 mg/Kg PCBs. Soils beneath the stormwater piping (1960s Orangeburg pipe) south of the building had up to 30 mg/Kg PCBs; this soil sample was collected from below the stormwater “T” connection at the clay pipe.

PCBs were detected at 2.6 mg/Kg in one exterior surficial soil sample north of the Site building at location EXT-5 which is north of the Oil Storage Room (Area 11) and near a catch basin. A sample of catch basin sediment adjacent to EXT-5 was found to contain PCBs at 2.2 mg/Kg and a sample from below the sediment in the catchbasin was non-detect for PCBs. Samples to the east of EXT-5 contained PCBs up to 1.2 mg/Kg and a sample south of the catchbasin (EXT-9) had PCBs at 1.2 mg/Kg. The sample north of the catchbasin (EXT-8) did not contain PCBs. PCBs north of the building appear limited to shallow soils less than one foot below the surface, except in the immediate vicinity of the catchbasin where impacts are less than four feet below grade. PCBs in catchbasin sediments and shallow surface soils north of the Oil Storage Room (Area 11) may be due to discharge from a former sink inside the Oil Storage Room (Area 11) or from excavation of the 1960s Orangeburg pipe when it was replaced with the 1972 iron drain pipe.

PCBs in Walls

Data collected as part of the March 2011 Interior PCB Characterization Report indicate embossing machine operations and/or oil handling appear to have resulted in PCB impacts to the walls of the Cutting & Grinding Room (Area 12) and Oil Storage Room (Area 11). The highest PCB impacts to wall samples in the Cutting & Grinding Room (Area 12) and Oil Storage Room (Area 11) are adjacent to the highest PCB concentrations in concrete floors and below floor soil samples. A second embossing machine was likely located in the Bronze Foundry Room (Area-14), where additional PCB wall impacts were identified.



Wall/paint samples with elevated PCBs were also found in the Aluminum Foundry Room (Area 10), adjacent to and west of the Cutting & Grinding Room (Area 12) and in samples from the walls of the Shared Loading Dock (Area 4). These impacts extend up to 15 feet above the floor. Wall impacts away from the Cutting & Grinding Room (Area 12) are inferred to indicate handling of machine oils or misting of machine oils used in the embossing machines.

In general, PCB concentrations are lower in samples further from the Cutting & Grinding Room (Area 12) which supports a release mechanism that includes the misting of PCB-bearing machine oils from the former embossing machine in the Cutting & Grinding Room (Area 12) when it was operating.

The two elevated paint/wall samples (A4-PW-3 at 29 mg/Kg and A4-PW2 at 58 mg/Kg) in the Shared Loading Dock (Area 4) may be attributed to historic oil handling and storage practices during shipping and receiving of embossing machine oils. Handling of PCB-bearing machine oils at the shared loading dock is consistent with exterior soil characterization and remediation. We note that significant PCB-related soil remediation was completed by GZA immediately outside the shared loading dock in 2009.

PCBs In Floors

PCBs spilled in the Cutting & Grinding Room (Area 12) and Oil Storage Room (Area 11) also appear to have been tracked into the room to the west (current Aluminum Foundry Room – Area 10) and other rooms west of the Cutting & Grinding Room (Area 12). PCB impacts above 1 mg/Kg appear to be limited to the top half inch of the floor where tracking has occurred. PCB impacts in the Bronze Foundry Room (Area-14) are likely from the use of a second embossing machine that was in operation in Area-14 prior to CFC occupying the building.

According to past employees, a second, newer embossing machine was located in the Bronze Foundry Room (Area 14) in the mid-1970s. Based upon the detected concentrations of PCBs it is likely the machine was located along the eastern wall of the Bronze Foundry Room (Area 14) in the vicinity of sample location A-14-F18 which had the highest PCB impacts. We note that soil samples collected beneath the concrete floor samples that had the highest PCB results were non-detect for PCBs. The most recent concrete floor sampling results also indicate PCBs were detected on the southeastern side of the Bronze Foundry Room (Area 14). PCBs were detected in 13 floor samples from the 0-0.5 inch interval (ranging from 0.34 mg/Kg to 110 mg/Kg); 7 of these samples exceeded the 1 mg/Kg unrestricted use criteria. Floor samples from the 0.5 to 1 inch interval were submitted

for the 7 samples from the 0-0.5 inch interval that were greater than 1 mg/Kg. PCBs were detected in four of the deeper samples (0.43 mg/Kg to 83 mg/Kg); two of these samples exceeded the 1 mg/Kg unrestricted use criteria.

PCBs In Ceilings

PCBs in ceilings were assessed by first testing locations proximal to highest levels of PCBs in floor and wall samples which are found in the Cutting & Grinding Room (Area 12). Since misting appeared to be the primary mechanism for PCBs in walls, and data trends of higher concentrations closer to the Cutting & Grinding Room (Area 12) were observed, the highest PCB impacts to ceilings would be found in the Cutting & Grinding Room (Area 12). Ceiling samples in the shared loading dock and in the Aluminum Foundry Room (Area 10) were also collected and analyzed since these areas also had elevated levels of PCBs in floor samples. PCBs impacts to ceilings appear to be minimal and the samples analyzed were below regulatory criteria. PCB impacts to ceilings are not above the unrestricted use levels in TSCA regulations and no further characterization of ceilings is warranted.

PCBs In Floor Wipe Samples

Floor wipe samples collected in January 2014 in the Shared Loading Dock (Area 4) and the Atlas Storage Area (Area 1) and Atlas Shop Area (Area 3) did not contain PCBs above the TSCA criteria for porous surface (10 µg/100cm²) at the seventeen locations that were tested. The wipe samples results indicate a relatively low risk of exposure for Site workers from PCBs in concrete floors in these areas of the building.

8.0 LIMITATIONS

Our Site evaluation was performed in accordance with generally accepted practices of other consultants undertaking similar studies at the same time and in the same geographical area, and we observed that degree of care and skill generally exercised by other consultants under similar circumstances and conditions. This assessment is subject to the Limitations presented in Appendix A.

This report has been prepared on behalf of and for the exclusive use of the FDIC as Receiver for Citytrust Bank solely for use in an environmental evaluation of the Site. This report and findings contained herein shall not, in whole or in part, be disseminated or conveyed to any other party, nor used by any other party in whole or in part, without our prior written consent. However, GZA acknowledges and agrees that the report may be conveyed to the EPA, CTDEEP, the Commercial Foundry Companies, and the FDIC's consultants. GZA's aggregate liability to all parties who may come to rely on this report is limited to the amount set forth in the Terms and Conditions of our contract and is not hereby expanded. No other warranty, express or implied, is made



TABLES

TABLE 1A
INTERIOR/EXTERIOR SOIL PCB RESULTS
326 South Street
New Britain, CT

Room	Sample ID	Material	Depth Below Surface of Floor (feet)	Sample Date	Units	Reporting Limit	Regulatory Criteria	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1268	All other Aroclors	Total PCBs
Area 12-CGR	A12-S-1	Soil	2.5-2.75	12/26/2012	mg/kg	0.38	1	ND	ND	ND	ND	ND	ND
Area 12-CGR	A12-S-1	Soil	4.75-5.0	12/26/2012	mg/kg	0.39	1	ND	ND	ND	ND	ND	ND
Area 12-CGR	A12-S-1	Soil	5.75-6.0	12/26/2012	mg/kg	0.39	1	ND	ND	ND	ND	ND	ND
Area 12-CGR	A12-S-2	Soil	2.5-2.75	12/26/2012	mg/kg	0.37	1	ND	ND	ND	ND	ND	ND
Area 12-CGR	A12-S-2	Soil	4.75-5.0	12/26/2012	mg/kg	0.41	1	*	ND	ND	ND	ND	1
Area 12-CGR	A12-S-2	Soil	5.75-6.0	12/26/2012	mg/kg	0.39	1	ND	ND	ND	ND	ND	ND
Area 12-CGR	A12-S-3	Soil	2.5-2.75	12/26/2012	mg/kg	0.37	1	ND	ND	ND	ND	ND	ND
Area 12-CGR	A12-S-3	Soil	4.75-5.0	12/26/2012	mg/kg	0.41	1	ND	ND	ND	ND	ND	ND
Area 12-CGR	A12-S-3	Soil	5.75-6.0	12/26/2012	mg/kg	0.38	1	ND	ND	ND	ND	ND	ND
Area 12-CGR	A12-S-4	Soil	2.5-2.75	12/26/2012	mg/kg	0.34	1	ND	ND	ND	ND	ND	ND
Area 12-CGR	A12-S-4	Soil	3.5-3.75	12/26/2012	mg/kg	0.34	1	ND	ND	ND	ND	ND	ND
Area 12-CGR	A12-S-5	Soil	2.5-2.75	12/26/2012	mg/kg	0.38	1	ND	ND	ND	ND	ND	ND
Area 12-CGR	A12-S-5	Soil	3.5-3.75	12/26/2012	mg/kg	0.42	1	ND	ND	ND	ND	ND	ND
Area 12-CGR	A12-S-6	Soil	2.5-2.75	12/26/2012	mg/kg	0.35	1	ND	ND	ND	ND	ND	ND
Area 12-CGR	A12-S-6	Soil	3.5-3.75	12/26/2012	mg/kg	0.39	1	ND	ND	ND	ND	ND	ND
In or Below Orangeburg Pipe													
Area 14-Bronze Foundry	A14-S-4	Soil	2.5-2.75	12/24/2012	mg/kg	39	1	*	ND	ND	ND	ND	420
Area 14-Bronze Foundry	A14-S-4 (dup)	Soil	2.5-2.75	12/24/2012	mg/kg	40	1	490	ND	ND	ND	ND	490
Area 14-Bronze Foundry	A14-S-5	Soil	2.75-3.0	12/24/2012	mg/kg	0.076	1	*	ND	ND	ND	ND	1
Area 14-Bronze Foundry	A14-S-13	Soil	3.5-3.75	12/24/2012	mg/kg	210	1	*	ND	ND	ND	ND	710
Area 14-Bronze Foundry	A14-S-13 (dup)	Soil	3.5-3.75	12/24/2012	mg/kg	200	1	570	ND	ND	ND	ND	570
Area 14-Bronze Foundry	A14-S-14	Soil	2.25-2.5	12/26/2012	mg/kg	0.4	1	ND	ND	ND	ND	ND	ND
Area 14-Bronze Foundry	A14-S-16	Soil	3.0-3.25	12/26/2012	mg/kg	1.8	1	*	ND	ND	ND	ND	24
Area 14-Bronze Foundry	A14-S-17	Soil	3.75-4.0	12/26/2012	mg/kg	0.37	1	*	ND	ND	ND	ND	2.9
Area 14-Bronze Foundry	Orangeburg Pipe	Pipe	2.5-2.75	12/24/2012	mg/kg	470	1	*	ND	ND	ND	ND	6,100
Area 14-Bronze Foundry	Orangeburg Pipe (dup)	Pipe	2.5-2.75	12/24/2012	mg/kg	470	1	1300	ND	ND	ND	ND	1,300
Above Orangeburg Pipe													
Area 14-Bronze Foundry	A14-S-3	Soil	1.5-1.75	12/24/2012	mg/kg	0.072	1	ND	ND	ND	ND	ND	0.35
Area 14-Bronze Foundry	A14-S-12	Soil	2.75-3.0	12/24/2012	mg/kg	0.076	1	*	*	ND	ND	ND	0.12
Area 14-Bronze Foundry	A14-S-15	Soil	2.75-3.0	12/26/2012	mg/kg	0.39	1	*	ND	ND	ND	ND	1.9
Below 8-inch Iron Pipe													
Area 14-Bronze Foundry	A14-S-1	Soil	2.5-2.75	12/22/2012	mg/kg	0.38	1	*	ND	ND	ND	ND	0.9
Area 14-Bronze Foundry	A14-S-2	Soil	2.5-2.75	12/22/2012	mg/kg	0.39	1	ND	ND	ND	ND	ND	ND
Area 14-Bronze Foundry	A14-S-6	Soil	2.5-2.75	12/24/2012	mg/kg	0.076	1	*	ND	ND	ND	ND	0.63
Area 14-Bronze Foundry	A14-S-7	Soil	2.5-2.75	12/24/2012	mg/kg	0.079	1	ND	ND	ND	ND	ND	ND
Area 14-Bronze Foundry	A14-S-8	Soil	2.75-3.0	12/24/2012	mg/kg	0.077	1	*	ND	ND	ND	ND	0.15
Area 14-Bronze Foundry	A14-S-9	Soil	2.5-2.75	12/24/2012	mg/kg	0.079	1	*	*	ND	ND	ND	0.94
Area 14-Bronze Foundry	A14-S-11	Soil	2.75-3.0	12/24/2012	mg/kg	0.75	1	*	*	ND	ND	ND	4.1
Area 14-Bronze Foundry	A14-S-21	Soil	2.75-3.0	12/26/2012	mg/kg	0.38	1	ND	ND	ND	ND	ND	ND
Above 8-inch Iron Pipe													
Area 14-Bronze Foundry	A14-S-10	Soil	1.5-1.75	12/24/2012	mg/kg	0.73	1	*	*	ND	ND	ND	5.5
At Depth of Building Wall Footing													
Area 14-Bronze Foundry	A14-S-18	Soil	4.0-4.25	12/26/2012	mg/kg	0.39	1	ND	ND	ND	ND	ND	ND
Area 14-Bronze Foundry	A14-S-18	Soil	5.0-5.25	12/26/2012	mg/kg	0.39	1	ND	ND	ND	ND	ND	ND
Area 14-Bronze Foundry	A14-S-18	Soil	5.75-6.0	12/26/2012	mg/kg	0.37	1	ND	ND	ND	ND	ND	ND
Area 14-Bronze Foundry	A14-S-19	Soil	4.0-4.25	12/26/2012	mg/kg	0.41	1	ND	ND	ND	ND	ND	ND
Area 14-Bronze Foundry	A14-S-19	Soil	5.0-5.25	12/26/2012	mg/kg	0.4	1	ND	ND	ND	ND	ND	ND
Area 14-Bronze Foundry	A14-S-20	Soil	4.0-4.25	12/26/2012	mg/kg	0.42	1	ND	ND	ND	ND	ND	ND
Area 14-Bronze Foundry	A14-S-20	Soil	5.0-5.25	12/26/2012	mg/kg	0.4	1	ND	ND	ND	ND	ND	ND

TABLE 1A
INTERIOR/EXTERIOR SOIL PCB RESULTS
326 South Street
New Britain, CT

Room	Sample ID	Material	Depth Below Surface of Floor (feet)	Sample Date	Units	Reporting Limit	Regulatory Criteria	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1268	All other Aroclors	Total PCBs
North Exterior	EXT-1	Soil	0.5-0.75	12/26/2012	mg/kg	0.41	1	ND	ND	ND	ND	ND	ND
North Exterior	EXT-2	Soil	0.5-0.75	12/26/2012	mg/kg	0.37	1	ND	ND	ND	ND	ND	ND
North Exterior	EXT-3	Soil	0.5-0.75	12/26/2012	mg/kg	0.37	1	ND	ND	ND	ND	ND	ND
North Exterior	EXT-4	Soil	0.5-0.75	12/26/2012	mg/kg	0.4	1	ND	ND	ND	ND	ND	ND
North Exterior	EXT-5	Soil	0.5-0.75	12/26/2012	mg/kg	0.39	1	*	*	ND	ND	ND	2.6
North Exterior	EXT-6	Soil	0.0-0.25	7/2/2013	mg/kg	0.26	1	ND	1.2	ND	ND	ND	1.2
North Exterior	EXT-6	Soil	0.25-0.5	7/2/2013	mg/kg	0.36	1	0.97	ND	ND	ND	ND	0.97
North Exterior	EXT-7	Soil	0.0-0.25	7/2/2013	mg/kg	0.27	1	ND	0.78	ND	ND	ND	0.78
North Exterior	EXT-8	Soil	0.5-0.75	7/2/2013	mg/kg	0.2	1	ND	ND	ND	ND	ND	ND
North Exterior	EXT-9	Soil	0.5-0.75	7/2/2013	mg/kg	0.2	1	ND	1.2	ND	ND	ND	1.2
North Exterior	EXT-9	Soil	0.75-1.0	7/2/2013	mg/kg	0.39	1	ND	ND	ND	ND	ND	ND
North Exterior	EXT-10	Soil	0.25-0.5	7/2/2013	mg/kg	0.2	1	ND	0.45	ND	ND	ND	0.45
North Exterior	EXT-10	Soil	1.75-2.0	7/2/2013	mg/kg	0.4	1	ND	ND	ND	ND	ND	ND
North Exterior	EXT-10	Soil	2.75-3.0	7/2/2013	mg/kg	0.38	1	ND	ND	ND	ND	ND	ND
North Exterior	Catch Basin	Sediment	NA	12/26/2012	mg/kg	0.5	1	*	*	ND	ND	ND	2.2
North Exterior	Catch Basin North	Soil	2.75-3.0	7/2/2013	mg/kg	0.21	1	ND	ND	ND	ND	ND	ND
1960s Orangeburg Pipe	Orange-1	Orangeburg Pipe	NA	7/1/2013	mg/kg	2,100	1	23,000	ND	ND	ND	ND	23,000
1960s Orangeburg Pipe	Orange-1 (rerun)	Orangeburg Pipe	NA	7/1/2013	mg/kg	2,100	1	14,000	ND	ND	ND	ND	14,000
1960s Orangeburg Pipe	Orange-1 (dup)	Orangeburg Pipe	NA	7/1/2013	mg/kg	25,000	1	37,000	ND	ND	ND	ND	37,000
1972 Orangeburg Pipe	Orange-2	Orangeburg Pipe	NA	7/1/2013	mg/kg	9.6	1	110	ND	ND	ND	ND	110
1960s Orangeburg Pipe	Orange-3	Orangeburg Pipe	NA	7/1/2013	mg/kg	1.6	1	19	ND	ND	ND	ND	19
1960s Orangeburg Pipe	EXT-101	Soil	4.5-4.75	1/10/2013	mg/kg	0.4	1	ND	ND	ND	ND	ND	ND
1960s Orangeburg Pipe	EXT-102	Soil	Below Orangeburg Pipe	7/1/2013	mg/kg	3.9	1	30	ND	ND	ND	ND	30
1960s Orangeburg Pipe	EXT-103	Soil	Below Sewer Line	7/1/2013	mg/kg	0.4	1	ND	ND	ND	ND	ND	ND
1960s Orangeburg Pipe	EXT-104	Soil	Below Orangeburg Pipe	7/2/2013	mg/kg	0.21	1	ND	ND	ND	ND	ND	ND
1972 Orangeburg Pipe	EXT-105	Soil	Below Orangeburg Pipe	7/2/2013	mg/kg	0.2	1	1.8	ND	ND	ND	ND	1.8
1972 Orangeburg Pipe	EXT-106	Soil	4-4.25	7/2/2013	mg/kg	0.2	1	ND	ND	ND	ND	ND	ND
CFC Bronzing Room	A-14-S-22	Soil	0.0-0.25	7/2/2013	mg/kg	0.36	1	ND	ND	ND	ND	ND	ND
CFC Bronzing Room	A-14-S-23	Soil	0.0-0.25	7/2/2013	mg/kg	0.36	1	ND	ND	ND	ND	ND	ND
CFC Bronzing Room	A-14-S-24	Soil	0.0-0.25	7/2/2013	mg/kg	0.35	1	ND	ND	ND	ND	ND	ND

Notes:

1. Samples were collected by GZA GeoEnvironmental, Inc. December 22, 24, and 26, 2012 and January 10, 2013
2. Samples were analyzed by Phoenix Environmental Laboratory, Inc. in Manchester, CT.
3. Regulatory Criteria refers to TSCA threshold for bulk remediation waste.
4. Shaded and bold analysis exceed the TSCA limit for unrestricted use at a PCB release area.
5. ND = Not detected above the laboratory reporting limit for this compound.
6. "*" indicates individual Aroclors could not be determined.

TABLE 1B
PREVIOUS INTERIOR/EXTERIOR SOIL PCB RESULTS
326 South Street
New Britain, CT

Room	Sample ID	Material	Depth Below Surface of Floor (feet)	Sample Date	Units	Reporting Limit	Regulatory Criteria	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1268	All other Aroclors	Total PCBs
CFC Grinding Room	S-11-S1	Soil	0.75-1.0	12/28/2010	mg/kg	0.37	1	ND	ND	ND	ND	ND	ND
CFC Grinding Room	S-19-S1	Soil	0.75-1.0	12/29/2010	mg/kg	0.38	1	ND	ND	ND	ND	ND	ND
CFC Grinding Room	S-20-S1	Soil	0.75-1.0	12/29/2010	mg/kg	0.36	1	ND	ND	ND	ND	ND	ND
CFC Grinding Room	S-23-S1	Soil	0.75-1.0	12/29/2010	mg/kg	0.35	1	ND	ND	ND	ND	ND	ND
CFC Grinding Room	S-27-S1	Soil	0.75-1.0	12/29/2010	mg/kg	0.37	1	ND	ND	ND	ND	ND	ND
CFC Grinding Room	S-29-S1	Soil	0.75-1.0	12/30/2010	mg/kg	0.37	1	ND	ND	ND	ND	ND	ND
CFC Grinding Room	S-34-S1	Soil	0.75-1.0	12/30/2010	mg/kg	0.37	1	*	*	ND	ND	ND	0.73
CFC Grinding Room	S-36-S1	Soil	0.75-1.0	12/30/2010	mg/kg	0.37	1	ND	ND	ND	ND	ND	ND
CFC Grinding Room	S-38-S1	Soil	0.75-1.0	12/30/2010	mg/kg	0.38	1	ND	ND	ND	ND	ND	ND
CFC Grinding Room	I-SOIL-2	Soil	1.5-1.75	5/25/2010	mg/kg	0.75	1	ND	ND	ND	ND	ND	ND
CFC Grinding Room	S-27-S2	Soil	1.5-1.75	12/29/2010	mg/kg	0.36	1	ND	ND	ND	ND	ND	ND
CFC Grinding Room	S-29-S2	Soil	1.5-1.75	12/30/2010	mg/kg	0.38	1	ND	ND	ND	ND	ND	ND

- Notes:
1. Samples were collected by GZA GeoEnvironmental, Inc. December 27 through December 30, 2010 (except for I-SOIL-2 sample collected 5-25-10)
 2. Samples were analyzed by Phoenix Environmental Laboratory, Inc. in Manchester, CT.
 3. Regulatory Criteria refers to TSCA threshold for bulk remediation waste.
 4. Shaded and bold analysis exceed the TSCA limit for unrestricted use at a PCB release area.
 5. ND = Not detected above the laboratory reporting limit for this compound.
 6. "*" indicates that individual Aroclors could not be determined.

TABLE 1C
PREVIOUS POST-REMEDATION PCB SOIL SIDEWALL RESULTS
326 South Street,
New Britain, CT

Room	Composite Sample ID	Individual Sample ID	Material	Depth Below Floor (feet)	Sample Date	Units	Reporting Limit	Regulatory Criteria	Aroclor 1248	All other Aroclors	Total PCBs
Cutting & Grinding Room	SW-Comp-1	SW-1	Soil Sidewall	2	12/23/2011	mg/kg	0.0549	1	ND	ND	ND
		SW-2	Soil Sidewall								
		SW-3	Soil Sidewall								
Cutting & Grinding Room	SW-Comp-2	SW-4	Soil Sidewall	2	12/23/2011	mg/kg	0.0551	1	ND	ND	ND
		SW-5	Soil Sidewall								
		SW-6	Soil Sidewall								
Cutting & Grinding Room	SW-Comp-3	SW-7	Soil Sidewall	2	12/26/2011	mg/kg	0.057	1	ND	ND	ND
		SW-8	Soil Sidewall								
		SW-9	Soil Sidewall								
Cutting & Grinding Room	SW-Comp-4	SW-10	Soil Sidewall	2	12/26/2011	mg/kg	0.0561	1	ND	ND	ND
		SW-11	Soil Sidewall								
		SW-12	Soil Sidewall								
Cutting & Grinding Room	SW-Comp-5	SW-13	Soil Sidewall	2	12/26/2011	mg/kg	0.0574	1	0.896	ND	0.896^
		SW-14	Soil Sidewall								
Cutting & Grinding Room	Not Applicable	SW-13	Soil Sidewall	2	12/26/2011	mg/kg	0.0564	1	0.425	ND	0.425
Cutting & Grinding Room	Not Applicable	SW-14	Soil Sidewall	2	12/26/2011	mg/kg	0.0592	1	0.145	ND	0.145
Cutting & Grinding Room	Not Applicable	SW-15 (2.5')	Soil Sidewall	2.5	12/26/2011	mg/kg	0.0564	1	ND	ND	ND
Cutting & Grinding Room	Not Applicable	SW-15 (4')	Soil Sidewall	4	12/26/2011	mg/kg	606	1	8,630	ND	8,630
Cutting & Grinding Room	Not Applicable	NE-BP	Soil Sidewall	2	12/26/2011	mg/kg	0.0549	1	ND	ND	ND
Room	Composite Sample ID	Individual Sample ID	Material	Depth Below Floor (feet)	Sample Date	Units	Reporting Limit	Regulatory Criteria	Aroclor 1248	All other Aroclors	Total PCBs
Cutting & Grinding Room	Not Applicable	Pipe-13-Soil	Sediment From Inside Pipe	1.7	12/23/2011	mg/kg	3210	NA	47,200	ND	47,200

- Notes:
- 1. Samples were collected by GZA GeoEnvironmental, Inc. December 23 through December 26, 2011.
 - 2. Samples were analyzed by ESS Laboratory in Cranston, RI.
 - 3. Regulatory Criteria refers to TSCA threshold for bulk remediation waste.
 - 4. Shaded and bold analysis exceed the TSCA limit for unrestricted use at a PCB release area.
 - 5. ND = Not detected above the laboratory reporting limit for this compound.
 - 6. Laboratory reporting limits for aroclor 1248 may be higher than this table shows if the aroclor was detected. The recoding limits of aroclors not detected are shown in this table.
 - 7. "^" = When composite sample result exceeded threshold for composite sampling, the individual samples that made up the composite were laboratory analyzed.

TABLE 1D
PREVIOUS POST-REMEDIATION PCB SOIL BOTTOM RESULTS
326 South Street,
New Britain, CT

Room	Composite Sample ID	Sample ID	Material	Depth Below Surface of Floor	Sample Date	Units	Reporting Limit	Regulatory Criteria	Aroclor 1248	All other Aroclors	Total PCBs
Grinding Room	Bot-Comp-1	Bot-1-10	Soil	4	12/23/2011	mg/kg	0.0628	1	0.0789	ND	0.0789
		Bot-1-11		2.5							
		Bot-1-12		2.5							
Grinding Room	Bot-Comp-2	Bot-2-10	Soil	4	12/23/2011	mg/kg	0.0646	1	ND	ND	ND
		Bot-2-11		2.5							
		Bot-2-12		2.5							
Grinding Room	Bot-Comp-3	Bot-3-10	Soil	4	12/23/2011	mg/kg	0.0587	1	ND	ND	ND
		Bot-3-11		2.5							
		Bot-3-12		2.5							
Grinding Room	Bot-Comp-4*	Bot-4-10	Soil	4	12/23/2011	mg/kg	0.0571	1	0.44	ND	0.44^
		Bot-4-11		2.5							
		Bot-4-12		2.5							
Grinding Room	Not Composite	Bot-4-10	Soil	4	12/23/2011	mg/kg	0.0629	1	9.02	ND	9.02
Grinding Room	Not Composite	Bot-4-11	Soil	2.5	12/23/2011	mg/kg	0.0614	1	0.1	ND	0.1
Grinding Room	Not Composite	Bot-4-12	Soil	2.5	12/23/2011	mg/kg	0.057	1	ND	ND	ND
Grinding Room	Bot-Comp-5	Bot-5-11	Soil	2.5	12/26/2011	mg/kg	0.0613	1	0.289	ND	0.289
		Bot-5-12		2.5							
		Bot-5-13		2.5							
Grinding Room	Bot-Comp-6	Bot-6-11	Soil	2.5	12/26/2011	mg/kg	0.0548	1	0.162	ND	0.162
		Bot-6-12		2.5							
		Bot-6-13		2.5							
Grinding Room	Bot-Comp-7	Bot-7-11	Soil	2.5	12/26/2011	mg/kg	0.0589	1	0.116	ND	0.116
		Bot-7-12		2.5							
		Bot-7-13		2.5							
Grinding Room	Bot-Comp-8	Bot-8-11	Soil	2.5	12/26/2011	mg/kg	0.0588	1	0.921	ND	0.921^
		Bot-8-12		2.5							
		Bot-8-13		2.5							
Grinding Room	Not Composite	Bot-8-11	Soil	2.5	12/26/2011	mg/kg	0.0573	1	0.245	ND	0.245
Grinding Room	Not Composite	Bot-8-12	Soil	2.5	12/26/2011	mg/kg	0.0561	1	9.59	ND	9.59
Grinding Room	Not Composite	Bot-8-13	Soil	2.5	12/26/2011	mg/kg	0.057	1	ND	ND	ND
Grinding Room	Not Composite	Bot-5-10	Soil	4.75	12/26/2011	mg/kg	0.0602	1	1.55	ND	1.55
Grinding Room	Not Composite	Bot-6-10	Soil	4.75	12/26/2011	mg/kg	1.23	1	15	ND	15
Grinding Room	Not Composite	Bot-7-10	Soil	4.75	12/26/2011	mg/kg	0.0584	1	2.59	ND	2.59
Grinding Room	Not Composite	Bot-8-10	Soil	4.75	12/26/2011	mg/kg	0.0603	1	6.29	ND	6.29

Notes:

1. Samples were collected by GZA GeoEnvironmental, Inc. December 27 and 29, 2011.
2. Samples were analyzed by ESS Laboratory in Cranston, RI.
3. Regulatory Criteria refers to TSCA threshold for bulk remediation waste.
4. Shaded and bold analysis exceed the TSCA limit for unrestricted use at a PCB release area.
5. ND = Not detected above the laboratory reporting limit for this compound.
6. "^" = When composite sample result exceeded threshold for composite sampling, the individual samples that made up the composite were laboratory analyzed.

TABLE 1E
PREVIOUS POST-REMEDIATION PCB CONCRETE SIDEWALL RESULTS
326 South Street,
New Britain, CT

Room	Sample ID	Material	Height Below Floor (feet)	Sample Depth Below Surface (inches)	Sample Date	Units	Reporting Limit	Regulatory Criteria	Aroclor 1248	All other Aroclors	Total PCBs
Grinding Room	C-1	Concrete Sidewall	2.5	0-0.5	12/23/2011	mg/kg	0.203	1	ND	ND	ND
Grinding Room	C-2	Concrete Sidewall	2.5	0-0.5	12/23/2011	mg/kg	0.22	1	ND	ND	ND
Grinding Room	C-3	Concrete Sidewall	2.5	0-0.5	12/23/2011	mg/kg	0.217	1	ND	ND	ND
Grinding Room	C-4	Concrete Sidewall	2.5	0-0.5	12/23/2011	mg/kg	0.209	1	0.299	ND	0.299
Grinding Room	C-5	Concrete Sidewall	2.5	0-0.5	12/23/2011	mg/kg	0.213	1	1.71	ND	1.71
Grinding Room	C-6	Concrete Sidewall	2.5	0-0.5	12/26/2011	mg/kg	0.2	1	1.72	ND	1.72
Grinding Room	C-7	Concrete Sidewall	2.5	0-0.5	12/26/2011	mg/kg	0.195	1	18.4	ND	18.4
Grinding Room	C-8	Concrete Sidewall	2.5	0-0.5	12/26/2011	mg/kg	0.197	1	5.49	ND	5.49
Grinding Room	C-9 ⁺	Concrete Sidewall	2.5	0.5-1.0	12/28/2011	mg/kg	0.211	1	1.81	ND	1.81

Notes:

1. Samples were collected by GZA GeoEnvironmental, Inc. December 23 through December 28, 2011.
2. Samples were analyzed by ESS Laboratory in Cranston, RI.
3. Regulatory Criteria refers to TSCA remediation criteria for unrestricted use.
4. Shaded and bold analysis exceed the regulatory criteria.
5. ND = Not detected above the laboratory reporting limit for this compound.
6. Samples were collected 0-0.5 inch deep into the wall.
7. "+" Sample was collected 0.5-1.0 inches deep into the foundation wall at same location as C-7 after scarification of wall (1/4-inch deep) was completed to remove black stained concrete.

TABLE 1F
ATLAS SOIL PCB RESULTS
326 South Street
New Britain, Connecticut

Room	Sample ID	Material	Depth Below Surface of Floor (feet)	Sample Date	Units	Reporting Limit	Regulatory Criteria	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1268	All other Aroclors	Total PCBs
Atlas Main Room	A3-S-4	Soil	0.0-2.0	12/22/2012	mg/kg	0.36	1	ND	ND	ND	ND	ND	ND
Atlas Main Room	A3-S-4	Soil	2.0-4.0	12/22/2012	mg/kg	0.35	1	ND	ND	ND	ND	ND	ND
Atlas Main Room	A3-S-6	Soil	0.0-2.0	12/22/2012	mg/kg	0.35	1	ND	ND	ND	ND	ND	ND
Atlas Main Room	A3-S-6	Soil	2.0-4.0	12/22/2012	mg/kg	0.35	1	ND	ND	ND	ND	ND	ND
Atlas Compressor Room	A4-S-2	Soil	0.0-2.0	12/22/2012	mg/kg	0.36	1	ND	ND	ND	ND	ND	ND
Atlas Compressor Room	A4-S-5	Soil	0.0-2.0	12/22/2012	mg/kg	0.38	1	ND	ND	ND	ND	ND	ND
Atlas Compressor Room	A4-S-6	Soil	0.0-2.0	12/22/2012	mg/kg	0.36	1	ND	ND	ND	ND	ND	ND

Notes:

1. Samples were collected by GZA GeoEnvironmental, Inc. December 22, 2012
2. Samples were analyzed by Phoenix Environmental Laboratory, Inc. in Manchester, CT.
3. Regulatory Criteria refers to TSCA threshold for bulk remediation waste.
4. Shaded and bold analysis exceed the TSCA limit for unrestricted use at a PCB release area.
5. ND = Not detected above the laboratory reporting limit for this compound.

TABLE 2A
INTERIOR CONCRETE FLOOR PCB RESULTS
326 South Street
New Britain, CT

Room	Sample ID	Material	Depth Below Floor (inches)	Sample Date	Units	Reporting Limit	Regulatory Criteria	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1268	All other Aroclors	Total PCBs
Atlas Main Room	A3-F1	Concrete Floor	0.0-0.5	12/27/2012	mg/kg	0.33	1	*	*	ND	ND	ND	1.8
Atlas Main Room	A3-F2	Concrete Floor	0.0-0.5	12/27/2012	mg/kg	0.33	1	*	ND	ND	ND	ND	0.66
Atlas Main Room	A3-F3	Concrete Floor	0.0-0.5	12/27/2012	mg/kg	0.33	1	*	ND	ND	ND	ND	1.1
Atlas Main Room	A3-F4	Concrete Floor	0.0-0.5	12/27/2012	mg/kg	0.32	1	*	ND	ND	ND	ND	2.8
Atlas Main Room	A3-F5	Concrete Floor	0.0-0.5	12/27/2012	mg/kg	1.6	1	*	*	ND	ND	ND	6.9
Atlas Compressor Room	A4-F1	Concrete Floor	0.0-0.5	12/27/2012	mg/kg	0.34	1	*	*	ND	ND	ND	3.9
Atlas Compressor Room	A4-F1 (dup)	Concrete Floor	0.0-0.5	12/27/2012	mg/kg	0.33	1	*	*	ND	ND	ND	4
Atlas Compressor Room	A4-F2	Concrete Floor	0.0-0.5	12/27/2012	mg/kg	0.33	1	*	*	ND	ND	ND	0.53
Atlas Compressor Room	A4-F3	Concrete Floor	0.0-0.5	12/27/2012	mg/kg	0.33	1	*	*	ND	ND	ND	0.68
Atlas Compressor Room	A4-F4	Concrete Floor	0.0-0.5	12/27/2012	mg/kg	0.33	1	ND	ND	ND	ND	ND	ND
Atlas Compressor Room	A4-F5	Concrete Floor	0.0-0.5	12/27/2012	mg/kg	0.33	1	*	*	ND	ND	ND	0.53
Atlas Compressor Room	A4-F6	Concrete Floor	0.0-0.5	12/27/2012	mg/kg	0.34	1	*	*	ND	ND	ND	3
Atlas Compressor Room	A4-F7	Concrete Floor	0.0-0.5	12/27/2012	mg/kg	0.33	1	*	*	ND	ND	ND	1.5
CFC Tumbling & Shaping	A5-F1	Concrete Floor	0.0-0.5	12/27/2012	mg/kg	0.33	1	*	*	ND	ND	ND	1.2
CFC Tumbling & Shaping	A5-F2	Concrete Floor	0.0-0.5	12/27/2012	mg/kg	0.33	1	*	*	ND	ND	ND	3.4
CFC Tumbling & Shaping	A5-F3	Concrete Floor	0.0-0.5	12/27/2012	mg/kg	0.34	1	*	*	ND	ND	ND	2.7
CFC Tumbling & Shaping	A5-F4	Concrete Floor	0.0-0.5	12/27/2012	mg/kg	0.34	1	*	ND	ND	ND	ND	1
CFC Tumbling & Shaping	A5-F5	Concrete Floor	0.0-0.5	12/27/2012	mg/kg	3.3	1	*	ND	ND	ND	ND	9.6
CFC Tumbling & Shaping	A5-F5 (dup)	Concrete Floor	0.0-0.5	12/27/2012	mg/kg	1.6	1	4.9	ND	ND	ND	ND	4.9
CFC Main Plant	A10-F1	Concrete Floor	0.0-0.5	12/27/2012	mg/kg	1.7	1	*	ND	ND	ND	ND	7
CFC Main Plant	A10-F2	Concrete Floor	0.0-0.5	12/27/2012	mg/kg	0.34	1	*	*	ND	ND	ND	0.62
CFC Main Plant	A10-F3	Concrete Floor	0.0-0.5	12/27/2012	mg/kg	0.33	1	*	*	ND	ND	ND	1
CFC Main Plant	A10-F4	Concrete Floor	0.0-0.5	12/27/2012	mg/kg	0.33	1	*	*	ND	ND	ND	0.5
CFC Main Plant	A10-F5	Concrete Floor	0.0-0.5	12/27/2012	mg/kg	0.34	1	ND	ND	ND	ND	ND	ND
CFC Main Plant	A10-F6	Concrete Floor	0.0-0.5	12/27/2012	mg/kg	0.33	1	*	*	ND	ND	ND	1
CFC Main Plant	A10-F7	Concrete Floor	0.0-0.5	12/27/2012	mg/kg	0.34	1	*	*	ND	ND	ND	2.5
CFC Main Plant	A10-F8	Concrete Floor	0.0-0.5	12/27/2012	mg/kg	0.33	1	*	*	ND	ND	ND	0.48
CFC Main Plant	A10-F9	Concrete Floor	0.0-0.5	12/27/2012	mg/kg	0.33	1	ND	ND	ND	ND	ND	ND
CFC Main Plant	A10-F10	Concrete Floor	0.0-0.5	12/27/2012	mg/kg	0.34	1	*	ND	ND	ND	ND	0.47
CFC Main Plant	A10-F11	Concrete Floor	0.0-0.5	12/27/2012	mg/kg	0.33	1	*	ND	ND	ND	ND	1.2
CFC Main Plant	A10-F12	Concrete Floor	0.0-0.5	12/27/2012	mg/kg	0.33	1	*	ND	ND	ND	ND	3.2
CFC Main Plant	A10-F13	Concrete Floor	0.0-0.5	12/27/2012	mg/kg	0.34	1	ND	ND	ND	ND	ND	ND
CFC Main Plant	A10-F14	Concrete Floor	0.0-0.5	12/27/2012	mg/kg	0.33	1	ND	ND	ND	ND	ND	ND
CFC Main Plant	A10-F15	Concrete Floor	0.0-0.5	12/27/2012	mg/kg	0.33	1	*	*	ND	ND	ND	4.4
CFC Main Plant	A10-F15 (dup)	Concrete Floor	0.0-0.5	12/27/2012	mg/kg	1.6	1	4	ND	ND	ND	ND	4
CFC Main Plant	A10-F16	Concrete Floor	0.0-0.5	12/27/2012	mg/kg	0.34	1	*	ND	ND	ND	ND	1.4
CFC Main Plant	A10-F17	Concrete Floor	0.0-0.5	12/27/2012	mg/kg	0.33	1	*	*	ND	ND	ND	1.9
CFC Main Plant	A10-F18	Concrete Floor	0.0-0.5	12/27/2012	mg/kg	0.33	1	*	*	ND	ND	ND	1.1
CFC Main Plant	A10-F19	Concrete Floor	0.0-0.5	12/27/2012	mg/kg	0.33	1	*	ND	ND	ND	ND	1.3
CFC Main Plant	A10-F20	Concrete Floor	0.0-0.5	12/27/2012	mg/kg	0.34	1	*	*	ND	ND	ND	1.3
CFC Main Plant	A10-F21	Concrete Floor	0.0-0.5	12/27/2012	mg/kg	0.33	1	*	*	ND	ND	ND	0.75
CFC Main Plant	A10-F22	Concrete Floor	0.0-0.5	12/27/2012	mg/kg	0.33	1	ND	ND	ND	ND	ND	ND
CFC Main Plant	A10-F23	Concrete Floor	0.0-0.5	12/27/2012	mg/kg	0.067	1	*	*	ND	ND	ND	0.3

TABLE 2A
INTERIOR CONCRETE FLOOR PCB RESULTS
326 South Street
New Britain, CT

Room	Sample ID	Material	Depth Below Floor (inches)	Sample Date	Units	Reporting Limit	Regulatory Criteria	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1268	All other Aroclors	Total PCBs
CFC Bronzing Room	A14-F1	Concrete Floor	0.0-0.5	12/20/2012	mg/kg	0.33	1	ND	ND	ND	ND	ND	ND
CFC Bronzing Room	A14-F2	Concrete Floor	0.0-0.5	12/20/2012	mg/kg	0.33	1	ND	ND	ND	ND	ND	ND
CFC Bronzing Room	A14-F3	Concrete Floor	0.0-0.5	12/20/2012	mg/kg	0.33	1	ND	ND	ND	ND	ND	ND
CFC Bronzing Room	A14-F4	Concrete Floor	0.0-0.5	12/20/2012	mg/kg	0.33	1	2.7	ND	ND	ND	ND	2.7
CFC Bronzing Room	A14-F5	Concrete Floor	0.0-0.5	12/28/2012	mg/kg	1.7	1	*	*	ND	ND	ND	20
CFC Bronzing Room	A14-F5 (dup)	Concrete Floor	0.0-0.5	12/28/2012	mg/kg	3.4	1	22	ND	ND	ND	ND	22
CFC Bronzing Room	A14-F6	Concrete Floor	0.0-0.5	12/28/2012	mg/kg	0.069	1	*	*	ND	ND	ND	0.26
CFC Bronzing Room	A14-F7	Concrete Floor	0.0-0.5	12/28/2012	mg/kg	0.071	1	ND	ND	ND	ND	ND	ND
CFC Bronzing Room	A14-F8	Concrete Floor	0.0-0.5	12/28/2012	mg/kg	0.068	1	*	*	ND	ND	ND	0.28
CFC Bronzing Room	A14-F9	Concrete Floor	0.0-0.5	12/28/2012	mg/kg	0.066	1	*	ND	ND	ND	ND	0.15
CFC Bronzing Room	A14-F10	Concrete Floor	0.0-0.5	12/28/2012	mg/kg	0.068	1	ND	ND	ND	ND	ND	ND
CFC Bronzing Room	A14-F11	Concrete Floor	0.0-0.5	12/28/2012	mg/kg	0.067	1	*	ND	ND	ND	ND	0.096
CFC Bronzing Room	A14-F-12	Concrete Floor	0.0-0.5	6/30/2013	mg/kg	0.34	1	2.3	ND	ND	ND	ND	2.3
CFC Bronzing Room	A14-F-13	Concrete Floor	0.0-0.5	6/30/2013	mg/kg	0.34	1	ND	ND	ND	ND	ND	ND
CFC Bronzing Room	A14-F-14	Concrete Floor	0.0-0.5	6/30/2013	mg/kg	0.33	1	ND	ND	ND	ND	ND	ND
CFC Bronzing Room	A14-F-17	Concrete Floor	0.0-0.5	6/30/2013	mg/kg	3.3	1	15	ND	ND	ND	ND	15
CFC Bronzing Room	A14-F-37 (dup)	Concrete Floor	0.0-0.5	6/30/2013	mg/kg	1.7	1	5.2	ND	ND	ND	ND	5.2
CFC Bronzing Room	A14-F-18	Concrete Floor	0.0-0.5	6/30/2013	mg/kg	17	1	110	ND	ND	ND	ND	110
CFC Bronzing Room	A14-F-19	Concrete Floor	0.0-0.5	6/30/2013	mg/kg	0.34	1	ND	ND	ND	ND	ND	ND
CFC Bronzing Room	A14-F-21	Concrete Floor	0.0-0.5	6/30/2013	mg/kg	0.33	1	0.5	ND	ND	ND	ND	0.5
CFC Bronzing Room	A14-F-23	Concrete Floor	0.0-0.5	6/30/2013	mg/kg	0.34	1	ND	ND	ND	ND	ND	ND
CFC Bronzing Room	A14-F-26	Concrete Floor	0.0-0.5	6/30/2013	mg/kg	0.34	1	ND	ND	ND	ND	ND	ND
CFC Bronzing Room	A14-F-27	Concrete Floor	0.0-0.5	6/30/2013	mg/kg	0.34	1	0.34	ND	ND	ND	ND	0.34
CFC Bronzing Room	A14-F-28	Concrete Floor	0.0-0.5	6/30/2013	mg/kg	0.34	1	0.57	ND	ND	ND	ND	0.57
CFC Bronzing Room	A14-F-29	Concrete Floor	0.0-0.5	6/30/2013	mg/kg	0.33	1	0.89	ND	ND	ND	ND	0.89
CFC Bronzing Room	A14-F-30	Concrete Floor	0.0-0.5	6/30/2013	mg/kg	0.34	1	ND	ND	ND	ND	ND	ND
CFC Bronzing Room	A14-F-31	Concrete Floor	0.0-0.5	6/30/2013	mg/kg	0.34	1	0.44	ND	ND	ND	ND	0.44
CFC Bronzing Room	A14-F-32	Concrete Floor	0.0-0.5	6/30/2013	mg/kg	0.34	1	1.4	ND	ND	ND	ND	1.4
CFC Bronzing Room	A14-F-33	Concrete Floor	0.0-0.5	6/30/2013	mg/kg	0.34	1	ND	ND	ND	ND	ND	ND
CFC Bronzing Room	A14-F-34	Concrete Floor	0.0-0.5	6/30/2013	mg/kg	0.34	1	1.9	ND	ND	ND	ND	1.9
CFC Bronzing Room	A14-F-35	Concrete Floor	0.0-0.5	6/30/2013	mg/kg	0.34	1	1.7	ND	ND	ND	ND	1.7
CFC Bronzing Room	A14-F-36	Concrete Floor	0.0-0.5	6/30/2013	mg/kg	0.34	1	1.3	ND	ND	ND	ND	1.3
Atlas Main Room	A3-F1	Concrete Floor	0.5-1.0	12/27/2012	mg/kg	0.33	1	ND	ND	ND	ND	ND	ND
Atlas Main Room	A3-F3	Concrete Floor	0.5-1.0	12/27/2012	mg/kg	0.34	1	ND	ND	ND	ND	ND	ND
Atlas Main Room	A3-F4	Concrete Floor	0.5-1.0	12/27/2012	mg/kg	0.41	1	0.86	ND	ND	ND	ND	0.86
Atlas Main Room	A3-F5	Concrete Floor	0.5-1.0	12/27/2012	mg/kg	0.33	1	0.61	ND	ND	ND	ND	0.61
Atlas Compressor Room	A4-F1	Concrete Floor	0.5-1.0	12/27/2012	mg/kg	0.34	1	ND	ND	ND	ND	ND	ND
Atlas Compressor Room	A4-F6	Concrete Floor	0.5-1.0	12/27/2012	mg/kg	0.33	1	0.51	ND	ND	ND	ND	0.51
Atlas Compressor Room	A4-F7	Concrete Floor	0.5-1.0	12/27/2012	mg/kg	0.33	1	ND	ND	ND	ND	ND	ND

TABLE 2A
INTERIOR CONCRETE FLOOR PCB RESULTS
326 South Street
New Britain, CT

Room	Sample ID	Material	Depth Below Floor (inches)	Sample Date	Units	Reporting Limit	Regulatory Criteria	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1268	All other Aroclors	Total PCBs
CFC Tumbling & Shaping	A5-F1	Concrete Floor	0.5-1.0	12/27/2012	mg/kg	0.34	1	ND	ND	ND	ND	ND	ND
CFC Tumbling & Shaping	A5-F2	Concrete Floor	0.5-1.0	12/27/2012	mg/kg	0.33	1	ND	ND	ND	ND	ND	ND
CFC Tumbling & Shaping	A5-F3	Concrete Floor	0.5-1.0	12/27/2012	mg/kg	0.34	1	ND	ND	ND	ND	ND	ND
CFC Tumbling & Shaping	A5-F4	Concrete Floor	0.5-1.0	12/28/2012	mg/kg	0.34	1	ND	ND	ND	ND	ND	ND
CFC Tumbling & Shaping	A5-F5	Concrete Floor	0.5-1.0	12/27/2012	mg/kg	0.34	1	ND	ND	ND	ND	ND	ND
CFC Main Plant	A10-F1	Concrete Floor	0.5-1.0	12/27/2012	mg/kg	0.33	1	0.33	ND	ND	ND	ND	0.33
CFC Main Plant	A10-F3	Concrete Floor	0.5-1.0	12/28/2012	mg/kg	0.34	1	ND	ND	ND	ND	ND	ND
CFC Main Plant	A10-F6	Concrete Floor	0.5-1.0	12/29/2012	mg/kg	0.34	1	0.43	ND	ND	ND	ND	0.43
CFC Main Plant	A10-F7	Concrete Floor	0.5-1.0	12/27/2012	mg/kg	0.35	1	ND	ND	ND	ND	ND	ND
CFC Main Plant	A10-F11	Concrete Floor	0.5-1.0	12/27/2012	mg/kg	0.33	1	ND	ND	ND	ND	ND	ND
CFC Main Plant	A10-F12	Concrete Floor	0.5-1.0	12/27/2012	mg/kg	0.33	1	ND	ND	ND	ND	ND	ND
CFC Main Plant	A10-F15	Concrete Floor	0.5-1.0	12/27/2012	mg/kg	0.34	1	0.68	ND	ND	ND	ND	0.68
CFC Main Plant	A10-F16	Concrete Floor	0.5-1.0	12/27/2012	mg/kg	0.34	1	ND	ND	ND	ND	ND	ND
CFC Main Plant	A10-F17	Concrete Floor	0.5-1.0	12/27/2012	mg/kg	0.34	1	ND	ND	ND	ND	ND	ND
CFC Main Plant	A10-F18	Concrete Floor	0.5-1.0	12/27/2012	mg/kg	0.33	1	ND	ND	ND	ND	ND	ND
CFC Main Plant	A10-F19	Concrete Floor	0.5-1.0	12/27/2012	mg/kg	0.36	1	0.43	ND	ND	ND	ND	0.43
CFC Main Plant	A10-F20	Concrete Floor	0.5-1.0	12/27/2012	mg/kg	0.34	1	ND	ND	ND	ND	ND	ND
CFC Bronzing Room	A14-F-5	Concrete Floor	0.5-1.0	12/28/2012	mg/kg	0.35	1	1.4	ND	ND	ND	ND	1.4
CFC Bronzing Room	A14-F-12	Concrete Floor	0.5-1.0	6/30/2013	mg/kg	0.34	1	ND	ND	ND	ND	ND	ND
CFC Bronzing Room	A14-F-17	Concrete Floor	0.5-1.0	6/30/2013	mg/kg	0.35	1	0.63	ND	ND	ND	ND	0.63
CFC Bronzing Room	A14-F-18	Concrete Floor	0.5-1.0	6/30/2013	mg/kg	17	1	83	ND	ND	ND	ND	83
CFC Bronzing Room	A14-F-32	Concrete Floor	0.5-1.0	6/30/2013	mg/kg	0.35	1	0.43	ND	ND	ND	ND	0.43
CFC Bronzing Room	A14-F-34	Concrete Floor	0.5-1.0	6/30/2013	mg/kg	0.34	1	ND	ND	ND	ND	ND	ND
CFC Bronzing Room	A14-F-35	Concrete Floor	0.5-1.0	6/30/2013	mg/kg	0.34	1	ND	ND	ND	ND	ND	ND
CFC Bronzing Room	A14-F-36	Concrete Floor	0.5-1.0	6/30/2013	mg/kg	0.34	1	ND	ND	ND	ND	ND	ND

Notes:

1. Samples were collected by GZA GeoEnvironmental, Inc.
2. Samples were analyzed by Phoenix Environmental Laboratory, Inc. in Manchester, CT.
3. Regulatory Criteria refers to TSCA threshold for unrestricted use of porous surfaces (concrete).
4. Shaded and bold analysis exceed the TSCA limit for unrestricted use at a PCB release area.
5. ND = Not detected above the laboratory reporting limit for this compound.
6. "*" indicates individual Aroclors could not be determined
6. A14-F-37 is a blind duplicate of A14-F-17.

TABLE 2B
PREVIOUS INTERIOR CONCRETE FLOOR PCB RESULTS
326 South Street
New Britain, CT

Room	Sample ID	Material	Depth Below Floor (inches)	Sample Date	Units	Reporting Limit	Regulatory Criteria	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1268	All other Aroclors	Total PCBs
CFC Oil Storage Room	S-1-C1	Concrete Floor	0.0-0.5	12/28/2010	mg/kg	0.33	1	*	ND	ND	ND	ND	1.4
CFC Oil Storage Room	S-2-C1	Concrete Floor	0.0-0.5	12/28/2010	mg/kg	0.33	1	*	ND	ND	ND	ND	1
CFC Oil Storage Room	S-3-C1	Concrete Floor	0.0-0.5	12/28/2010	mg/kg	0.33	1	*	ND	ND	ND	ND	1.1
CFC Oil Storage Room	S-4-C1	Concrete Floor	0.0-0.5	12/28/2010	mg/kg	0.33	1	*	ND	ND	ND	ND	0.71
CFC Oil Storage Room	S-5-C1	Concrete Floor	0.0-0.5	12/28/2010	mg/kg	0.33	1	ND	ND	ND	ND	ND	ND
CFC Oil Storage Room	S-6-C1	Concrete Floor	0.0-0.5	12/28/2010	mg/kg	0.33	1	*	ND	ND	ND	ND	1.3
CFC Oil Storage Room	S-7-C1	Concrete Floor	0.0-0.5	12/28/2010	mg/kg	0.33	1	*	ND	ND	ND	ND	0.54
CFC Oil Storage Room	S-7-C1 DUP	Concrete Floor	0.0-0.5	12/28/2010	mg/kg	0.33	1	*	ND	ND	ND	ND	0.38
CFC Oil Storage Room	S-8-C1	Concrete Floor	0.0-0.5	12/28/2010	mg/kg	0.33	1	*	ND	ND	ND	ND	0.44
CFC Grinding Room	S-9-C1	Concrete Floor	0.0-0.5	12/28/2010	mg/kg	0.33	1	*	*	ND	*	ND	3.9
CFC Grinding Room	S-10-C1	Concrete Floor	0.0-0.5	12/28/2010	mg/kg	0.33	1	*	*	ND	*	ND	2.63
CFC Grinding Room	S-10-C1 DUP	Concrete Floor	0.0-0.5	12/28/2010	mg/kg	0.33	1	*	*	ND	*	ND	4.3
CFC Grinding Room	S-11-C1	Concrete Floor	0.0-0.5	12/28/2010	mg/kg	3.3	1	*	*	ND	*	ND	40.8
CFC Grinding Room	S-12-C1	Concrete Floor	0.0-0.5	12/28/2010	mg/kg	1.6	1	*	*	ND	*	ND	22.3
CFC Grinding Room	S-15-C1	Concrete Floor	0.0-0.5	12/28/2010	mg/kg	0.33	1	ND	ND	ND	ND	ND	ND
CFC Grinding Room	S-16-C1	Concrete Floor	0.0-0.5	12/28/2010	mg/kg	3.3	1	ND	ND	ND	*	*	29
CFC Grinding Room	I-CONC-1	Concrete Floor	0.0-0.5	5/25/2010	mg/kg	33	1	*	*	ND	ND	ND	220
CFC Grinding Room	S-19-C1	Concrete Floor	0.0-0.5	12/29/2010	mg/kg	16	1	*	*	ND	ND	ND	120
CFC Grinding Room	S-20-C1	Concrete Floor	0.0-0.5	12/29/2010	mg/kg	1.7	1	*	*	ND	ND	ND	14
CFC Grinding Room	S-23-C1	Concrete Floor	0.0-0.5	12/29/2010	mg/kg	1.7	1	*	*	ND	ND	ND	4.3
CFC Grinding Room	S-24-C1	Concrete Floor	0.0-0.5	12/29/2010	mg/kg	3.2	1	*	*	ND	*	ND	73
CFC Grinding Room	S-27-C1	Concrete Floor	0.0-0.5	12/29/2010	mg/kg	1.6	1	*	*	ND	ND	ND	14
CFC Grinding Room	S-28-C1	Concrete Floor	0.0-0.5	12/29/2010	mg/kg	1.6	1	*	*	ND	*	ND	15.2
CFC Grinding Room	S-29-C1	Concrete Floor	0.0-0.5	12/30/2010	mg/kg	81	1	*	*	ND	ND	ND	720
CFC Grinding Room	S-31-C1	Concrete Floor	0.0-0.5	12/30/2010	mg/kg	3.2	1	*	*	ND	ND	ND	26
CFC Grinding Room	S-32-C1	Concrete Floor	0.0-0.5	12/29/2010	mg/kg	0.33	1	*	*	ND	*	ND	5.47
CFC Grinding Room	S-33-C1	Concrete Floor	0.0-0.5	12/30/2010	mg/kg	0.33	1	*	*	ND	*	ND	2.9
CFC Grinding Room	S-33-C1 DUP	Concrete Floor	0.0-0.5	12/30/2010	mg/kg	0.33	1	*	*	ND	*	ND	2.4
CFC Grinding Room	S-34-C1	Concrete Floor	0.0-0.5	12/30/2010	mg/kg	0.33	1	*	*	ND	*	ND	15.8
CFC Grinding Room	S-35-C1	Concrete Floor	0.0-0.5	12/30/2010	mg/kg	3.3	1	*	*	ND	*	ND	46
CFC Grinding Room	S-36-C1	Concrete Floor	0.0-0.5	12/30/2010	mg/kg	16	1	*	*	ND	*	ND	247
CFC Grinding Room	S-37-C1	Concrete Floor	0.0-0.5	12/30/2010	mg/kg	0.32	1	*	*	ND	*	ND	20.9
CFC Grinding Room	S-38-C1	Concrete Floor	0.0-0.5	12/30/2010	mg/kg	3.3	1	*	*	ND	ND	ND	12
CFC Grinding Room	S-39-C1	Concrete Floor	0.0-0.5	12/30/2010	mg/kg	3.3	1	*	*	ND	*	ND	54
CFC Grinding Room	S-40-C1	Concrete Floor	0.0-0.5	12/30/2010	mg/kg	16	1	ND	ND	ND	58	ND	58
CFC Grinding Room	S-40-C1 DUP	Concrete Floor	0.0-0.5	12/30/2010	mg/kg	16	1	ND	ND	ND	52	ND	52
CFC Compressor Room	S-51-C1	Concrete Floor	0.0-0.5	12/28/2010	mg/kg	0.32	1	*	ND	ND	ND	ND	0.53
CFC Compressor Room	S-52-C1	Concrete Floor	0.0-0.5	12/28/2010	mg/kg	0.32	1	*	ND	ND	ND	ND	0.36
CFC Compressor Room	S-53-C1	Concrete Floor	0.0-0.5	12/28/2010	mg/kg	0.33	1	ND	ND	ND	ND	ND	ND
CFC Bronzing Room	S-47-C1	Concrete Floor	0.0-0.5	12/29/2010	mg/kg	0.33	1	*	*	ND	ND	ND	0.57
CFC Main Plant	S-42-C1	Concrete Floor	0.0-0.5	12/30/2010	mg/kg	3.3	1	*	*	ND	ND	ND	21
CFC Main Plant	S-55-C1	Concrete Floor	0.0-0.5	12/30/2010	mg/kg	0.33	1	*	*	ND	ND	ND	4

TABLE 2B
PREVIOUS INTERIOR CONCRETE FLOOR PCB RESULTS
326 South Street
New Britain, CT

Room	Sample ID	Material	Depth Below Floor (inches)	Sample Date	Units	Reporting Limit	Regulatory Criteria	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1268	All other Aroclors	Total PCBs
CFC Oil Storage Room	S-1-C2	Concrete Floor	0.5-1.0	12/28/2010	mg/kg	0.33	1	ND	ND	ND	ND	ND	ND
CFC Oil Storage Room	S-2-C2	Concrete Floor	0.5-1.0	12/28/2010	mg/kg	0.33	1	ND	ND	ND	ND	ND	ND
CFC Oil Storage Room	S-3-C2	Concrete Floor	0.5-1.0	12/28/2010	mg/kg	0.32	1	ND	ND	ND	ND	ND	ND
CFC Oil Storage Room	S-4-C2	Concrete Floor	0.5-1.0	12/28/2010	mg/kg	NA	1	NA	NA	NA	NA	NA	NA
CFC Oil Storage Room	S-5-C2	Concrete Floor	0.5-1.0	12/28/2010	mg/kg	NA	1	NA	NA	NA	NA	NA	NA
CFC Oil Storage Room	S-6-C2	Concrete Floor	0.5-1.0	12/28/2010	mg/kg	0.33	1	ND	ND	ND	ND	ND	ND
CFC Oil Storage Room	S-7-C2	Concrete Floor	0.5-1.0	12/28/2010	mg/kg	NA	1	NA	NA	NA	NA	NA	NA
CFC Oil Storage Room	S-8-C2	Concrete Floor	0.5-1.0	12/28/2010	mg/kg	NA	1	NA	NA	NA	NA	NA	NA
CFC Grinding Room	S-9-C2	Concrete Floor	0.5-1.0	12/28/2010	mg/kg	0.33	1	ND	ND	ND	ND	ND	ND
CFC Grinding Room	S-10-C2	Concrete Floor	0.5-1.0	12/28/2010	mg/kg	0.33	1	ND	ND	ND	ND	ND	ND
CFC Grinding Room	S-11-C2	Concrete Floor	0.5-1.0	12/28/2010	mg/kg	0.33	1	*	*	ND	ND	ND	2.7
CFC Grinding Room	S-12-C2	Concrete Floor	0.5-1.0	12/28/2010	mg/kg	0.33	1	ND	ND	ND	ND	ND	ND
CFC Grinding Room	S-15-C2	Concrete Floor	0.5-1.0	12/29/2010	mg/kg	0.33	1	ND	ND	ND	ND	ND	ND
CFC Grinding Room	S-16-C2	Concrete Floor	0.5-1.0	12/28/2010	mg/kg	0.32	1	ND	ND	ND	ND	ND	ND
CFC Grinding Room	S-19-C2	Concrete Floor	0.5-1.0	12/29/2010	mg/kg	3.3	1	*	*	ND	ND	ND	36
CFC Grinding Room	S-20-C2	Concrete Floor	0.5-1.0	12/29/2010	mg/kg	0.32	1	*	*	ND	ND	ND	1
CFC Grinding Room	S-23-C2	Concrete Floor	0.5-1.0	12/29/2010	mg/kg	0.33	1	*	*	ND	ND	ND	2.1
CFC Grinding Room	S-24-C2	Concrete Floor	0.5-1.0	12/29/2010	mg/kg	0.33	1	ND	ND	ND	ND	ND	ND
CFC Grinding Room	S-27-C2	Concrete Floor	0.5-1.0	12/29/2010	mg/kg	1.7	1	*	*	ND	ND	ND	4.8
CFC Grinding Room	S-28-C2	Concrete Floor	0.5-1.0	12/29/2010	mg/kg	0.32	1	ND	ND	ND	ND	ND	ND
CFC Grinding Room	S-29-C2	Concrete Floor	0.5-1.0	12/30/2010	mg/kg	16	1	*	*	ND	ND	ND	130
CFC Grinding Room	S-31-C2	Concrete Floor	0.5-1.0	12/30/2010	mg/kg	0.32	1	*	*	ND	ND	ND	0.75
CFC Grinding Room	S-32-C2	Concrete Floor	0.5-1.0	12/29/2010	mg/kg	0.33	1	ND	ND	ND	ND	ND	ND
CFC Grinding Room	S-33-C2	Concrete Floor	0.5-1.0	12/30/2010	mg/kg	0.32	1	ND	ND	ND	ND	ND	ND
CFC Grinding Room	S-34-C2	Concrete Floor	0.5-1.0	12/30/2010	mg/kg	0.33	1	*	*	ND	ND	ND	1.1
CFC Grinding Room	S-35-C2	Concrete Floor	0.5-1.0	12/30/2010	mg/kg	0.32	1	*	*	ND	ND	ND	0.47
CFC Grinding Room	S-36-C2	Concrete Floor	0.5-1.0	12/30/2010	mg/kg	3.3	1	*	*	ND	ND	ND	15
CFC Grinding Room	S-37-C2	Concrete Floor	0.5-1.0	12/30/2010	mg/kg	0.33	1	ND	ND	ND	ND	ND	ND
CFC Grinding Room	S-38-C2	Concrete Floor	0.5-1.0	12/30/2010	mg/kg	0.32	1	*	*	ND	ND	ND	2.9
CFC Grinding Room	S-39-C2	Concrete Floor	0.5-1.0	12/30/2010	mg/kg	0.33	1	ND	ND	ND	ND	ND	ND
CFC Grinding Room	S-40-C2	Concrete Floor	0.5-1.0	12/30/2010	mg/kg	0.33	1	ND	ND	0.51	ND	ND	0.51
CFC Compressor Room	S-51-C2	Concrete Floor	0.5-1.0	12/28/2010	mg/kg	NA	1	NA	NA	NA	NA	NA	NA
CFC Compressor Room	S-52-C2	Concrete Floor	0.5-1.0	12/28/2010	mg/kg	NA	1	NA	NA	NA	NA	NA	NA
CFC Compressor Room	S-53-C2	Concrete Floor	0.5-1.0	12/28/2010	mg/kg	NA	1	NA	NA	NA	NA	NA	NA
CFC Bronzing Room	S-47-C2	Concrete Floor	0.5-1.0	12/30/2010	mg/kg	0.33	1	ND	ND	ND	ND	ND	ND
CFC Main Plant	S-42-C2	Concrete Floor	0.5-1.0	12/30/2010	mg/kg	0.33	1	ND	ND	ND	ND	ND	ND
CFC Main Plant	S-55-C2	Concrete Floor	0.5-1.0	12/30/2010	mg/kg	0.33	1	ND	ND	ND	ND	ND	ND

TABLE 2B
PREVIOUS INTERIOR CONCRETE FLOOR PCB RESULTS
326 South Street
New Britain, CT

Room	Sample ID	Material	Depth Below Floor (inches)	Sample Date	Units	Reporting Limit	Regulatory Criteria	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1268	All other Aroclors	Total PCBs
CFC Aluminum Foundry	S-41-C1	Concrete Floor	0.0-0.5	5/11/2011	mg/kg	1.6	1	*	*	ND	ND	ND	0.58
CFC Aluminum Foundry	S-43-C1	Concrete Floor	0.0-0.5	5/11/2011	mg/kg	0.16	1	*	*	ND	ND	ND	0.64
CFC Aluminum Foundry	S-44-C1	Concrete Floor	0.0-0.5	5/11/2011	mg/kg	0.82	1	*	*	ND	ND	ND	9.3
CFC Aluminum Foundry	S-45-C1	Concrete Floor	0.0-0.5	5/11/2011	mg/kg	1.6	1	*	*	ND	ND	ND	2
CFC Aluminum Foundry	S-45-C1 DUP	Concrete Floor	0.0-0.5	5/11/2011	mg/kg	0.83	1	*	*	ND	ND	ND	6
CFC Aluminum Foundry	S-46-C1	Concrete Floor	0.0-0.5	5/11/2011	mg/kg	1.6	1	*	*	ND	ND	ND	9.3
CFC Aluminum Foundry	S-47-C1	Concrete Floor	0.0-0.5	5/11/2011	mg/kg	1.6	1	*	*	ND	ND	ND	5.7
CFC Aluminum Foundry	S-48-C1	Concrete Floor	0.0-0.5	5/11/2011	mg/kg	0.83	1	*	*	ND	ND	ND	10
CFC Aluminum Foundry	S-49-C1	Concrete Floor	0.0-0.5	5/11/2011	mg/kg	0.16	1	*	*	ND	ND	ND	1.9
CFC Aluminum Foundry	S-50-C1	Concrete Floor	0.0-0.5	5/11/2011	mg/kg	1.6	1	*	*	ND	ND	ND	5.3
CFC Aluminum Foundry	S-51-C1	Concrete Floor	0.0-0.5	5/11/2011	mg/kg	1.7	1	*	*	ND	ND	ND	17
CFC Aluminum Foundry	S-52-C1	Concrete Floor	0.0-0.5	5/11/2011	mg/kg	0.16	1	ND	0.7	ND	ND	ND	0.7
CFC Aluminum Foundry	S-53-C1	Concrete Floor	0.0-0.5	5/11/2011	mg/kg	0.16	1	*	*	ND	ND	ND	0.85
CFC Aluminum Foundry	S-54-C1	Concrete Floor	0.0-0.5	5/11/2011	mg/kg	0.83	1	*	*	ND	ND	ND	9.6
CFC Aluminum Foundry	S-56-C1	Concrete Floor	0.0-0.5	5/11/2011	mg/kg	0.16	1	*	*	ND	ND	ND	0.68
CFC Aluminum Foundry	S-57-C1	Concrete Floor	0.0-0.5	5/11/2011	mg/kg	0.16	1	*	*	ND	ND	ND	1.2
CFC Aluminum Foundry	S-58-C1	Concrete Floor	0.0-0.5	5/11/2011	mg/kg	0.16	1	*	*	ND	ND	ND	1.06
CFC Aluminum Foundry	S-59-C1	Concrete Floor	0.0-0.5	5/11/2011	mg/kg	0.82	1	*	*	ND	ND	ND	3.7
CFC Aluminum Foundry	S-60-C1	Concrete Floor	0.0-0.5	5/11/2011	mg/kg	0.82	1	*	*	ND	ND	ND	3.7
CFC Aluminum Foundry	S-61-C1	Concrete Floor	0.0-0.5	5/11/2011	mg/kg	0.78	1	*	*	ND	ND	ND	3.5
CFC Aluminum Foundry	S-62-C1	Concrete Floor	0.0-0.5	5/11/2011	mg/kg	1.6	1	*	*	ND	ND	ND	4.9
CFC Aluminum Foundry	S-63-C1	Concrete Floor	0.0-0.5	5/11/2011	mg/kg	1.6	1	*	*	ND	ND	ND	5.2
CFC Aluminum Foundry	S-41-C2	Concrete Floor	0.5-1.0	5/11/2011	mg/kg	0.32	1	ND	ND	ND	ND	ND	ND
CFC Aluminum Foundry	S-43-C2	Concrete Floor	0.5-1.0	5/11/2011	mg/kg	0.33	1	ND	ND	ND	ND	ND	ND
CFC Aluminum Foundry	S-43-C2 DUP	Concrete Floor	0.5-1.0	5/11/2011	mg/kg	0.32	1	ND	ND	ND	ND	ND	ND
CFC Aluminum Foundry	S-44-C2	Concrete Floor	0.5-1.0	5/11/2011	mg/kg	0.32	1	*	ND	ND	ND	ND	0.46
CFC Aluminum Foundry	S-45-C2	Concrete Floor	0.5-1.0	5/11/2011	mg/kg	0.32	1	ND	ND	ND	ND	ND	ND
CFC Aluminum Foundry	S-46-C2	Concrete Floor	0.5-1.0	5/11/2011	mg/kg	0.33	1	*	ND	ND	ND	ND	0.76
CFC Aluminum Foundry	S-47-C2	Concrete Floor	0.5-1.0	5/11/2011	mg/kg	0.32	1	ND	ND	ND	ND	ND	ND
CFC Aluminum Foundry	S-48-C2	Concrete Floor	0.5-1.0	5/11/2011	mg/kg	0.33	1	*	ND	ND	ND	ND	0.78
CFC Aluminum Foundry	S-49-C2	Concrete Floor	0.5-1.0	5/11/2011	mg/kg	0.33	1	ND	ND	ND	ND	ND	ND
CFC Aluminum Foundry	S-50-C2	Concrete Floor	0.5-1.0	5/11/2011	mg/kg	0.33	1	ND	ND	ND	ND	ND	ND
CFC Aluminum Foundry	S-51-C2	Concrete Floor	0.5-1.0	5/11/2011	mg/kg	0.32	1	*	ND	ND	ND	ND	0.32
CFC Aluminum Foundry	S-52-C2	Concrete Floor	0.5-1.0	5/11/2011	mg/kg	0.33	1	ND	ND	ND	ND	ND	ND
CFC Aluminum Foundry	S-53-C2	Concrete Floor	0.5-1.0	5/11/2011	mg/kg	0.33	1	ND	ND	ND	ND	ND	ND
CFC Aluminum Foundry	S-54-C2	Concrete Floor	0.5-1.0	5/11/2011	mg/kg	0.33	1	ND	ND	ND	ND	ND	ND
CFC Aluminum Foundry	S-56-C2	Concrete Floor	0.5-1.0	5/11/2011	mg/kg	0.33	1	ND	ND	ND	ND	ND	ND
CFC Aluminum Foundry	S-57-C2	Concrete Floor	0.5-1.0	5/11/2011	mg/kg	0.33	1	ND	ND	ND	ND	ND	ND
CFC Aluminum Foundry	S-58-C2	Concrete Floor	0.5-1.0	5/11/2011	mg/kg	0.33	1	ND	ND	ND	ND	ND	ND
CFC Aluminum Foundry	S-59-C2	Concrete Floor	0.5-1.0	5/11/2011	mg/kg	0.33	1	ND	ND	ND	ND	ND	ND
CFC Aluminum Foundry	S-60-C2	Concrete Floor	0.5-1.0	5/11/2011	mg/kg	0.33	1	ND	ND	ND	ND	ND	ND
CFC Aluminum Foundry	S-61-C2	Concrete Floor	0.5-1.0	5/11/2011	mg/kg	0.33	1	ND	ND	ND	ND	ND	ND
CFC Aluminum Foundry	S-62-C2	Concrete Floor	0.5-1.0	5/11/2011	mg/kg	0.32	1	ND	ND	ND	ND	ND	ND
CFC Aluminum Foundry	S-63-C2	Concrete Floor	0.5-1.0	5/11/2011	mg/kg	0.33	1	ND	ND	ND	ND	ND	ND

Notes:

1. Samples were collected by GZA GeoEnvironmental, Inc. May 25, 2010, December 28-30, 2012, and May 11, 2011.
2. Samples were analyzed by Phoenix Environmental Laboratory, Inc. in Manchester, CT.
3. Regulatory Criteria refers to TSCA threshold for unrestricted use of porous surfaces (concrete).
4. Shaded and bold analysis exceed the TSCA limit for unrestricted use at a PCB release area.
5. ND = Not detected above the laboratory reporting limit for this compound.
6. "*" indicates individual Aroclors could not be determined

TABLE 3A
INTERIOR WALL/PAINT PCB RESULTS
326 South Street
New Britain, CT

Room	Sample ID	Material	Height Above Floor (feet)	Sample Date	Units	Reporting Limit	Regulatory Criteria	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1268	All other Aroclors	Total PCBs
Atlas Compressor Room	A4-PW-1	Concrete Wall	4	12/28/2012	mg/kg	1.6	^	*	*	ND	ND	ND	9.3
Atlas Compressor Room	A4-PW-2	Concrete Wall	4	12/28/2012	mg/kg	14	^	*	*	ND	ND	ND	58
Atlas Compressor Room	A4-PW-3	Concrete Wall	4	12/28/2012	mg/kg	3.1	^	*	*	ND	ND	ND	29
CFC Tumbling & Shaping	A5-PW-1	Sheetrock Wall	4	12/28/2012	mg/kg	3	^	*	*	ND	ND	ND	9.6
CFC Tumbling & Shaping	A5-PW-2	Sheetrock Wall	4	12/28/2012	mg/kg	0.82	^	*	ND	ND	ND	ND	9.1
CFC Tumbling & Shaping	A5-PW-3	Sheetrock Wall	4	12/28/2012	mg/kg	0.59	^	*	ND	ND	ND	ND	6.4
CFC Main Plant	A10-PW-1	Concrete Wall	4	12/27/2012	mg/kg	2	^	*	*	ND	ND	ND	16
CFC Main Plant	A10-PW-2	Concrete Wall	4	12/27/2012	mg/kg	3	^	*	*	ND	ND	ND	37
CFC Main Plant	A10-PW-3	Concrete Wall	4	12/27/2012	mg/kg	8	^	*	ND	ND	ND	ND	36
CFC Main Plant	A10-PW-4	Concrete Wall	4	12/27/2012	mg/kg	14	^	*	ND	ND	ND	ND	52
CFC Main Plant	A10-PW-4 (dup)	Concrete Wall	4	12/27/2012	mg/kg	8	^	*	*	ND	ND	ND	53
CFC Main Plant	A10-PW-5	Concrete Wall	4	12/27/2012	mg/kg	3.2	^	*	*	ND	ND	ND	32
CFC Main Plant	A10-PW-6	Concrete Wall	4	12/27/2012	mg/kg	9.2	^	38	ND	ND	ND	ND	38
CFC Main Plant	A10-PW-7	Sheetrock Wall	4	12/27/2012	mg/kg	0.72	^	*	*	ND	ND	ND	1.2
CFC Main Plant	A10-PW-7 (dup)	Sheetrock Wall	4	12/27/2012	mg/kg	0.82	^	1.3	ND	ND	ND	ND	1.3
CFC Main Plant	A10-PW-8	Concrete Wall	4	12/27/2012	mg/kg	3.4	^	*	*	ND	ND	ND	24
CFC Main Plant	A10-PW-9	Concrete Wall	4	12/27/2012	mg/kg	1.9	^	*	*	ND	ND	ND	26
CFC Main Plant	A10-PW-10	Concrete Wall	4	12/27/2012	mg/kg	8	^	*	ND	ND	ND	ND	45
CFC Main Plant	A10-PW-11	Concrete Wall	4	12/28/2012	mg/kg	29	^	*	*	ND	ND	ND	72
CFC Main Plant	A10-PW-12	Sheetrock Wall	4	12/28/2012	mg/kg	2.5	^	23	ND	ND	ND	ND	23
CFC Main Plant	A10-PW-13	Concrete Wall	10	7/3/2013	mg/kg	2.4	^	*	*	ND	ND	ND	12
CFC Main Plant	A10-PW-13	Concrete Wall	15	7/3/2013	mg/kg	0.33	^	*	*	*	ND	ND	4.8
CFC Main Plant	A10-PW-14	Concrete Wall	10	7/3/2013	mg/kg	2.5	^	22	ND	ND	ND	ND	22
CFC Main Plant	A10-PW-14	Concrete Wall	15	7/3/2013	mg/kg	1.6	^	7.7	ND	ND	ND	ND	7.7
CFC Main Plant	A10-PW-15	Sheetrock Wall	10	7/3/2013	mg/kg	0.5	^	2.9	ND	ND	ND	ND	2.9
CFC Main Plant	A10-PW-15	Sheetrock Wall	15	7/3/2013	mg/kg	0.37	^	1.7	ND	ND	ND	ND	1.7
CFC Main Plant	A10-PW-16	Sheetrock Wall	10	7/3/2013	mg/kg	0.35	^	1.8	ND	ND	ND	ND	1.8
CFC Main Plant	A10-PW-16	Sheetrock Wall	15	7/3/2013	mg/kg	0.33	^	1.5	ND	ND	ND	ND	1.5
CFC Grinding Room	A12-PW-1	Sheetrock Wall	10	7/3/2013	mg/kg	0.65	^	*	*	*	ND	ND	5.2
CFC Grinding Room	A12-PW-1 (dup)	Sheetrock Wall	10	7/3/2013	mg/kg	0.65	^	*	*	*	ND	ND	5.4
CFC Grinding Room	A12-PW-1	Sheetrock Wall	15	7/3/2013	mg/kg	3.4	^	*	*	ND	ND	ND	12
CFC Grinding Room	A12-PW-2	Concrete Wall	10	7/3/2013	mg/kg	5.4	^	*	*	*	ND	ND	59
CFC Grinding Room	A12-PW-2	Concrete Wall	15	7/3/2013	mg/kg	3.9	^	*	*	ND	ND	ND	30
CFC Grinding Room	A12-PW-3	Concrete Wall	10	7/3/2013	mg/kg	4.9	^	*	*	ND	ND	ND	40
CFC Grinding Room	A12-PW-3	Concrete Wall	15	7/3/2013	mg/kg	3.2	^	*	*	*	ND	ND	26
CFC Bronzing Room	A14-PW-1	Concrete Wall	4	12/28/2012	mg/kg	0.81	^	*	*	ND	ND	ND	2.8
CFC Bronzing Room	A14-PW-2	Concrete Wall	4	12/28/2012	mg/kg	0.51	^	*	ND	ND	ND	ND	4.1
CFC Bronzing Room	A14-PW-3	Concrete Wall	4	12/28/2012	mg/kg	0.76	^	*	ND	ND	ND	ND	6.7
CFC Bronzing Room	A14-PW-4	Concrete Wall	4	12/28/2012	mg/kg	1.8	^	*	*	ND	ND	ND	18
CFC Bronzing Room	A14-PW-5	Concrete Wall	4	12/28/2012	mg/kg	0.58	^	*	ND	ND	ND	ND	0.85
CFC Bronzing Room	A14-PW-6	Concrete Wall	4	12/28/2012	mg/kg	2.8	^	*	*	ND	ND	ND	14
CFC Bronzing Room	A14-PW-7	Concrete Wall	4	7/3/2013	mg/kg	0.31	^	*	*	*	ND	ND	2
CFC Bronzing Room	A14-PW-7	Concrete Wall	10	7/3/2013	mg/kg	2.4	^	*	*	ND	ND	ND	12
CFC Bronzing Room	A14-PW-7	Concrete Wall	15	7/3/2013	mg/kg	0.57	^	*	*	*	ND	ND	5.2
CFC Bronzing Room	A14-PW-8	Concrete Wall	4	7/3/2013	mg/kg	2.5	^	*	*	ND	ND	ND	15
CFC Bronzing Room	A14-PW-8	Concrete Wall	10	7/3/2013	mg/kg	2.5	^	*	*	ND	ND	ND	8.7
CFC Bronzing Room	A14-PW-8	Concrete Wall	15	7/3/2013	mg/kg	2.6	^	*	*	ND	ND	ND	7.3
CFC Bronzing Room	A14-PW-9	Concrete Wall	4	7/3/2013	mg/kg	2.7	^	*	*	ND	ND	ND	17
CFC Bronzing Room	A14-PW-9	Concrete Wall	10	7/3/2013	mg/kg	0.57	^	*	*	*	ND	ND	3.4
CFC Bronzing Room	A14-PW-9	Concrete Wall	15	7/3/2013	mg/kg	0.36	^	*	*	*	ND	ND	3

Notes:

1. Samples were collected by GZA GeoEnvironmental, Inc.
2. Samples were analyzed by Phoenix Environmental Laboratory, Inc. in Manchester, CT.
3. Regulatory Criteria refers to TSCA threshold for unrestricted use of porous surfaces (concrete).
4. Shaded and bold analysis exceed the TSCA limit for unrestricted use at a PCB release area.

5. ND = Not detected above the laboratory reporting limit for this compound.
6. "*" indicates individual Aroclors could not be determined.
7. "^" Regulatory criteria will be determined in a remedial action plan which accounts for end goal of Site.

TABLE 3B
PREVIOUS INTERIOR WALL/PAINT PCB RESULTS
326 South Street
New Britain, CT

Room	Sample ID	Material	Height Above Floor (feet)	Sample Date	Units	Reporting Limit	Regulatory Criteria	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1268	All other Aroclors	Total PCBs
CFC Oil Storage Room	W-1 (1)	Concrete Wall	1	12/27/2010	mg/kg	1.6	1	*	*	ND	ND	ND	13
CFC Oil Storage Room	W-2 (1)	Concrete Wall	1	12/27/2010	mg/kg	2.7	1	*	*	ND	ND	ND	16
CFC Oil Storage Room	W-3 (1)	Concrete Wall	1	12/27/2010	mg/kg	3.3	1	*	*	ND	ND	ND	14
CFC Oil Storage Room	W-4 (1)	Concrete Wall	1	12/27/2010	mg/kg	1.7	1	*	*	ND	ND	ND	14
CFC Oil Storage Room	W-5 (1)	Concrete Wall	1	12/27/2010	mg/kg	3.4	1	*	*	ND	ND	ND	42
CFC Oil Storage Room	W-6 (1)	Concrete Wall	1	12/27/2010	mg/kg	4	1	*	*	ND	ND	ND	19
CFC Oil Storage Room	W-7 (1)	Concrete Wall	1	12/27/2010	mg/kg	4.4	1	*	ND	ND	ND	ND	30
CFC Oil Storage Room	W-8 (1)	Concrete Wall	1	12/27/2010	mg/kg	1.8	1	*	*	ND	ND	ND	14
CFC Oil Storage Room	W-1 (4)	Concrete Wall	4	12/27/2010	mg/kg	3.3	1	*	*	ND	ND	ND	13
CFC Oil Storage Room	W-2 (4)	Concrete Wall	4	12/27/2010	mg/kg	3.3	1	*	*	ND	ND	ND	10
CFC Oil Storage Room	W-3 (4)	Concrete Wall	4	12/27/2010	mg/kg	4.2	1	*	*	ND	ND	ND	12
CFC Oil Storage Room	W-4 (4)	Concrete Wall	4	12/27/2010	mg/kg	3.2	1	*	*	ND	ND	ND	12
CFC Oil Storage Room	W-5 (4)	Concrete Wall	4	12/27/2010	mg/kg	2.2	1	*	*	ND	ND	ND	22
CFC Oil Storage Room	W-6 (4)	Concrete Wall	4	12/27/2010	mg/kg	6.2	1	*	*	ND	ND	ND	17
CFC Oil Storage Room	W-7 (4)	Concrete Wall	4	12/27/2010	mg/kg	2.2	1	*	*	ND	ND	ND	18
CFC Oil Storage Room	W-8 (4)	Concrete Wall	4	12/27/2010	mg/kg	1.6	1	*	*	ND	ND	ND	7.8
CFC Grinding Room	W-9 (1)	Concrete Wall	1	12/27/2010	mg/kg	16	1	*	*	ND	ND	ND	56
CFC Grinding Room	W-12 (1)	Concrete Wall	1	12/27/2010	mg/kg	1.6	1	*	*	ND	ND	ND	20
CFC Grinding Room	W-13 (1)	Concrete Wall	1	12/27/2010	mg/kg	3.2	1	*	*	ND	ND	ND	31
CFC Grinding Room	W-16 (1)	Concrete Wall	1	12/27/2010	mg/kg	3.3	1	*	*	ND	ND	ND	24
CFC Grinding Room	W-17 (1)	Concrete Wall	1	12/27/2010	mg/kg	3.3	1	*	*	ND	ND	ND	40
CFC Grinding Room	W-20 (1)	Concrete Wall	1	12/27/2010	mg/kg	1.6	1	*	*	ND	ND	ND	17
CFC Grinding Room	W-21 (1)	Concrete Wall	1	12/27/2010	mg/kg	16	1	*	*	ND	ND	ND	91
CFC Grinding Room	W-24 (1)	Concrete Wall	1	12/27/2010	mg/kg	3.3	1	*	*	ND	ND	ND	23
CFC Grinding Room	W-24 (1) DUP	Concrete Wall	1	12/27/2010	mg/kg	3.3	1	*	*	ND	ND	ND	29
CFC Grinding Room	W-25 (1)	Concrete Wall	1	12/27/2010	mg/kg	160	1	*	*	ND	ND	ND	760
CFC Grinding Room	W-28 (1)	Concrete Wall	1	12/27/2010	mg/kg	1.6	1	*	*	ND	ND	ND	19
CFC Grinding Room	W-29 (1)	Concrete Wall	1	12/27/2010	mg/kg	16	1	*	*	ND	ND	ND	58
CFC Grinding Room	W-29 (1) DUP	Concrete Wall	1	12/27/2010	mg/kg	16	1	*	*	ND	ND	ND	61
CFC Grinding Room	W-33 (1)	Concrete Wall	1	12/27/2010	mg/kg	1.6	1	*	*	ND	ND	ND	18
CFC Grinding Room	W-36 (1)	Concrete Wall	1	12/27/2010	mg/kg	1.8	1	*	*	ND	ND	ND	20
CFC Grinding Room	W-40 (1)	Concrete Wall	1	12/27/2010	mg/kg	16	1	*	*	ND	ND	ND	16
CFC Grinding Room	W-9 (4)	Concrete Wall	4	12/27/2010	mg/kg	17	1	*	*	ND	ND	ND	83
CFC Grinding Room	W-12 (4)	Concrete Wall	4	12/27/2010	mg/kg	1.6	1	*	*	ND	ND	ND	22
CFC Grinding Room	W-13 (4)	Concrete Wall	4	12/27/2010	mg/kg	3.2	1	*	*	ND	ND	ND	10
CFC Grinding Room	W-16 (4)	Concrete Wall	4	12/27/2010	mg/kg	3.3	1	*	*	ND	ND	ND	29
CFC Grinding Room	W-17 (4)	Concrete Wall	4	12/27/2010	mg/kg	8.2	1	*	*	ND	ND	ND	40
CFC Grinding Room	W-20 (4)	Concrete Wall	4	12/27/2010	mg/kg	1.6	1	*	*	ND	ND	ND	5.4
CFC Grinding Room	W-21 (4)	Concrete Wall	4	12/27/2010	mg/kg	17	1	*	*	ND	ND	ND	50
CFC Grinding Room	W-24 (4)	Concrete Wall	4	12/27/2010	mg/kg	1.6	1	*	*	ND	ND	ND	21
CFC Grinding Room	W-25 (4)	Concrete Wall	4	12/27/2010	mg/kg	33	1	*	*	ND	ND	ND	360
CFC Grinding Room	W-28 (4)	Concrete Wall	4	12/27/2010	mg/kg	4.3	1	*	*	ND	ND	ND	29
CFC Grinding Room	W-29 (4)	Concrete Wall	4	12/27/2010	mg/kg	8.3	1	*	*	ND	ND	ND	36
CFC Grinding Room	W-33 (4)	Concrete Wall	4	12/27/2010	mg/kg	8.3	1	*	*	ND	ND	ND	26
CFC Grinding Room	W-36 (4)	Concrete Wall	4	12/27/2010	mg/kg	1.6	1	*	*	ND	ND	ND	23
CFC Grinding Room	W-40 (4)	Concrete Wall	4	12/27/2010	mg/kg	1.6	1	*	*	ND	ND	ND	17

TABLE 3B
PREVIOUS INTERIOR WALL/PAINT PCB RESULTS
326 South Street
New Britain, CT

Room	Sample ID	Material	Height Above Floor	Sample Date	Units	Reporting Limit	Regulatory Criteria	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1268	All other Aroclors	Total PCBs
Atlas Storage Area	Paint 1	Concrete Block	4	5/9/2011	mg/kg	0.86	50	*	*	ND	ND	ND	12
Atlas Storage Area	Paint 2	Concrete Block	4	5/9/2011	mg/kg	1.6	50	*	*	ND	ND	ND	10
Atlas Storage Area	Paint 3	Concrete Block	4	5/9/2011	mg/kg	0.85	50	*	*	ND	ND	ND	6.5
Atlas Storage Area	Paint 4	Brick	2	5/9/2011	mg/kg	0.29	50	*	*	ND	ND	ND	4.4
Atlas Main Room	Paint 5	Concrete	4	5/9/2011	mg/kg	1.5	50	*	*	ND	ND	ND	5.6
Atlas Main Room	Paint 6	Dry Wall	4	5/9/2011	mg/kg	0.58	50	*	*	ND	ND	ND	6.5
Atlas Main Room	Paint 7	Concrete	4	5/9/2011	mg/kg	0.98	50	*	*	ND	ND	ND	8.1
Atlas Main Room	Paint 8	Concrete Block	4	5/9/2011	mg/kg	0.76	50	*	*	ND	ND	ND	5.9
Atlas Main Room	Paint 9	Concrete	4	5/9/2011	mg/kg	1.6	50	*	*	ND	ND	ND	6.4
Atlas Compressor Room	Paint 10	Concrete	4	5/9/2011	mg/kg	4	50	*	*	ND	ND	ND	33
Atlas Connector	Paint 11	Concrete Block	4	5/9/2011	mg/kg	0.99	50	*	*	ND	ND	ND	4
Atlas Connector	Paint 11 DUP	Concrete Block	4	5/9/2011	mg/kg	0.63	50	*	*	ND	ND	ND	3.9
CFC Tumbling & Shaping	Paint 12	Concrete	1	5/9/2011	mg/kg	8	50	ND	9.5	ND	ND	ND	9.5
CFC Tumbling & Shaping	Paint 13	Concrete	1	5/9/2011	mg/kg	0.83	50	*	*	ND	ND	ND	5.1
CFC Main Plant	Paint 14	Concrete	4	5/9/2011	mg/kg	12	50	*	*	ND	ND	ND	45
CFC Main Plant	Paint 15	Concrete	1	5/9/2011	mg/kg	3.1	50	*	*	ND	ND	ND	21
CFC Main Plant	Paint 16	Concrete Block	4	5/9/2011	mg/kg	8.5	50	*	*	ND	ND	ND	55
CFC Main Plant	Paint 17	Concrete Block	1	5/9/2011	mg/kg	6.4	50	*	*	ND	ND	ND	77
CFC Main Plant	Paint 18	Concrete Block	1	5/9/2011	mg/kg	14	50	*	*	ND	ND	ND	150
CFC Equipment Storage Room	Paint 20	Concete Block	2	5/10/2011	mg/kg	12	50	*	*	ND	ND	ND	41
CFC Mold Storage Room	Paint 21	Concete Block	2	5/10/2011	mg/kg	2.8	50	*	*	ND	ND	ND	33
CFC Grinding Room	Paint 22	Concete Block	2	5/10/2011	mg/kg	140	50	*	*	ND	ND	ND	380
CFC Grinding Room	Paint 23	Concete Block	2	5/10/2011	mg/kg	170	50	*	*	ND	ND	ND	880
CFC Grinding Room	Paint 24	Concete Block	2	5/10/2011	mg/kg	26	50	*	*	ND	ND	ND	350
CFC Oil Storage Room	Paint 25	Concete Block	4	5/10/2011	mg/kg	15	50	*	*	ND	ND	ND	150
CFC Bronzing Room	Paint 19	Concrete Block	4	5/10/2011	mg/kg	0.71	50	*	*	ND	ND	ND	6.6
CFC Bronzing Room	Paint 26	Concete Block	4	5/10/2011	mg/kg	0.34	50	*	*	ND	ND	ND	3.4
CFC Bronzing Room	Paint 27	Concete Block	4	5/10/2011	mg/kg	0.29	50	*	*	ND	ND	ND	3.4
CFC Bronzing Room	Paint 28	Concete Block	2	5/10/2011	mg/kg	2.4	50	*	*	ND	ND	ND	11
CFC Bronzing Room	Paint 29	Concete Block	4	5/10/2011	mg/kg	3.3	50	*	*	ND	ND	ND	13
CFC Boiler Room	Paint 30	Concrete	1	5/10/2011	mg/kg	0.25	50	*	*	ND	ND	ND	ND

Notes:

1. Samples were collected by GZA GeoEnvironmental, Inc. December 27, 2010 and May 9 and May 10, 2011
2. Samples were analyzed by Phoenix Environmental Laboratory, Inc. in Manchester, CT.
3. Regulatory Criteria refers to TSCA threshold for unrestricted use of porous surfaces (concrete).
4. Shaded and bold analysis exceed the TSCA limit for unrestricted use at a PCB release area.
5. ND = Not detected above the laboratory reporting limit for this compound.
6. "*" indicates individual Aroclors could not be determined

TABLE 3C
PREVIOUS INTERIOR WALL WIPE PCB RESULTS
326 South Street
New Britain, CT

Room	Sample ID	Material	Height Above Floor	Sample Date	Units	Reporting Limit	Regulatory Criteria	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1268	All other Aroclors	Total PCBs
CFC Aluminum Foundry	Wipe-1 (4')	Concete Block Wall	4	3/22/2011	µg/100cm ²	1	10	7.8	ND	ND	ND	ND	7.8
CFC Grinding Room	Wipe-2 (FLOOR)	Concete Floor	0	3/22/2011	µg/100cm ²	1	10	7.5	ND	3.5	ND	ND	11.0
CFC Grinding Room	Wipe-3 (4')	Concete Block Wall	4	3/22/2011	µg/100cm ²	4	10	21	ND	ND	ND	ND	21.0
CFC Grinding Room	Wipe-4 (FLOOR)	Concete Floor	0	3/22/2011	µg/100cm ²	1	10	8.8	ND	5.4	ND	ND	14.2
CFC Grinding Room	Wipe-5 ((1')	Concete Block Wall	1	3/22/2011	µg/100cm ²	20	10	110	ND	ND	ND	ND	110.0
CFC Grinding Room	Wipe-6 (FLOOR)	Concete Floor	0	3/22/2011	µg/100cm ²	4	10	26	ND	ND	ND	ND	26.0
CFC Grinding Room	Wipe-7 (4')	Concete Block Wall	4	3/22/2011	µg/100cm ²	0.8	10	4.6	ND	ND	ND	ND	4.6
CFC Equipment Storage Room	Wipe 20	Concete Block Wall	2	5/10/2010	µg/100cm ²	1	10	*	*	ND	ND	ND	12
CFC Mold Storage Room	Wipe 21	Concete Block Wall	2	5/10/2010	µg/100cm ²	0.5	10	*	*	ND	ND	ND	4.2
CFC Grinding Room	Wipe 22	Concete Block Wall	2	5/10/2010	µg/100cm ²	5	10	*	*	ND	ND	ND	7.9
CFC Grinding Room	Wipe 23	Concete Block Wall	2	5/10/2010	µg/100cm ²	5	10	*	*	ND	ND	ND	32
CFC Grinding Room	Wipe 24	Concete Block Wall	2	5/10/2010	µg/100cm ²	5	10	*	*	ND	ND	ND	60
CFC Oil Storage Room	Wipe 25	Concete Block Wall	4	5/10/2010	µg/100cm ²	0.5	10	*	*	ND	ND	ND	3.6
CFC Bronzing Room	Wipe 26	Concete Block Wall	4	5/10/2010	µg/100cm ²	0.5	10	*	*	ND	ND	ND	3.6
CFC Bronzing Room	Wipe 27	Concete Block Wall	4	5/10/2010	µg/100cm ²	0.5	10	*	*	ND	ND	ND	3.3
CFC Bronzing Room	Wipe 28	Concete Block Wall	2	5/10/2010	µg/100cm ²	0.5	10	*	*	ND	ND	ND	4.5
CFC Bronzing Room	Wipe 29	Concete Block Wall	4	5/10/2010	µg/100cm ²	0.5	10	*	*	ND	ND	ND	4.8
Atlas Area 1	A1-WIPE-1	Concrete Floor	NA	1/20/2014	µg/100cm ²	1.0	10	ND	ND	ND	ND	ND	ND
Atlas Area 1	A1-WIPE-2	Concrete Floor	NA	1/20/2014	µg/100cm2	1.0	10	1.1	ND	ND	ND	ND	ND
Atlas Area 1	A1-WIPE-3	Concrete Floor	NA	1/20/2014	µg/100cm2	1.0	10	ND	ND	ND	ND	ND	ND
Atlas Area 1	A1-WIPE-4	Concrete Floor	NA	1/20/2014	µg/100cm2	1.0	10	1.5	ND	ND	ND	ND	ND
Atlas Area 1	A1-WIPE-5	Concrete Floor	NA	1/20/2014	µg/100cm2	1.0	10	ND	ND	ND	ND	ND	ND
Atlas Area 3	A3-WIPE-1	Concrete Floor	NA	1/20/2014	µg/100cm2	1.0	10	ND	ND	ND	ND	ND	ND
Atlas Area 3	A3-WIPE-2	Concrete Floor	NA	1/20/2014	µg/100cm2	1.0	10	ND	ND	ND	ND	ND	ND
Atlas Area 3	A3-WIPE-3	Concrete Floor	NA	1/20/2014	µg/100cm2	1.0	10	ND	ND	ND	ND	ND	ND
Atlas Area 3	A3-WIPE-4	Concrete Floor	NA	1/20/2014	µg/100cm2	1.0	10	1.2	ND	ND	ND	ND	ND
Atlas Area 3	A3-WIPE-5	Concrete Floor	NA	1/20/2014	µg/100cm2	1.0	10	ND	ND	ND	ND	ND	ND
Atlas Area 3	A3-WIPE-DUP	Concrete Floor	NA	1/20/2014	µg/100cm ²	1.0	10	ND	ND	ND	ND	ND	ND
Atlas Area 3	A3-WIPE-6	Concrete Floor	NA	1/20/2014	µg/100cm2	1.0	10	ND	ND	ND	ND	ND	ND
Atlas Area 3	A3-WIPE-7	Concrete Floor	NA	1/20/2014	µg/100cm2	1.0	10	ND	ND	ND	ND	ND	ND
Atlas Area 3	A3-WIPE-8	Concrete Floor	NA	1/20/2014	µg/100cm2	1.0	10	3.9	ND	ND	ND	ND	ND
Atlas Area 3	A3-WIPE-9	Concrete Floor	NA	1/20/2014	µg/100cm2	1.0	10	2.3	ND	ND	ND	ND	ND
Area 4 (shared loading dock)	A4-WIPE-1	Concrete Floor	NA	1/20/2014	µg/100cm2	1.0	10	ND	ND	ND	ND	ND	ND
Area 4 (shared loading dock)	A4-WIPE-6	Concrete Floor	NA	1/20/2014	µg/100cm2	1.0	10	2.6	ND	ND	ND	ND	ND
Area 4 (shared loading dock)	A4-WIPE-7	Concrete Floor	NA	1/20/2014		1.0	10	ND	ND	ND	ND	ND	ND
Atlas	TRIP BLANK	Concrete Floor	NA	1/20/2014	µg/100cm ²	1.0	10	ND	ND	ND	ND	ND	ND

- Notes:
- Samples were collected by GZA GeoEnvironmental, Inc. on March 22 and May 10, 2011.
 - Samples were analyzed by Phoenix Environmental Laboratory, Inc. in Manchester, CT (May 10 samples) or Contest Analytical Laboratory in East Longmeadow, MA (March 22 samples).
 - Regulatory Criteria refers to TSCA allowable limit for remediated surfaces or continued use of porous surfaces (concrete) after decontamination.
 - Shaded and bold analysis exceed the TSCA allowable limit.
 - ND = Not detected above the laboratory reporting limit for this compound.
 - "*" indicates individual Aroclors could not be determined
 - A3-WIPE-DUP sample collected at same location as A3-WIPE-5.

TABLE 3D
PREVIOUS INDOOR AIR PCB RESULTS
326 South Street
New Britain, CT

Sample ID	Room/Location	Inside/Outside	Height Above Floor	Sample Date	Units	Laboratory Reporting Limit	Regulatory Criteria - NIOSH, REL	Regulatory Criteria - OSHA, REL	Total PCBs
I-AIR-1	CFC Area 9 (lunch room)	Inside	3	3/22/2011	mg/m ³	0.00041	0.001	0.5	ND
I-AIR-2	CFC Area 7 (office)	Inside	3	3/22/2011	mg/m ³	0.00054	0.001	0.5	ND
I-AIR-3	CFC Area 5 (shipping)	Inside	4	3/22/2011	mg/m ³	0.00041	0.001	0.5	ND
I-AIR-4	CFC Area 10 (Alum. Foundry)	Inside	3	3/22/2011	mg/m ³	0.00042	0.001	0.5	ND
I-AIR-5	CFC Grinding Room	Inside	3	3/22/2011	mg/m ³	0.00041	0.001	0.5	ND
I-AIR-6	CFC Grinding Room	Inside	3	3/22/2011	mg/m ³	0.00097	0.001	0.5	ND
I-AIR-7	CFC Grinding Room	Inside	3	3/22/2011	mg/m ³	0.00043	0.001	0.5	ND
I-AIR-8	CFC Outside Shipping Area	Outside	1	3/22/2011	mg/m ³	0.00005	0.001	0.5	ND

Notes:

1. Samples were collected by GZA GeoEnvironmental, Inc. March 22, 2011.
2. Samples were analyzed by Contest Environmental Laboratory, in East Longmeadow, MA.
3. Regulatory Criteria refers to NIOSH and OSHA recommended limits for PCBs in air.
4. Shaded and bold analysis exceed one or more of the regulatory recommended limits.
5. ND = Not detected above the laboratory reporting limit for this compound.

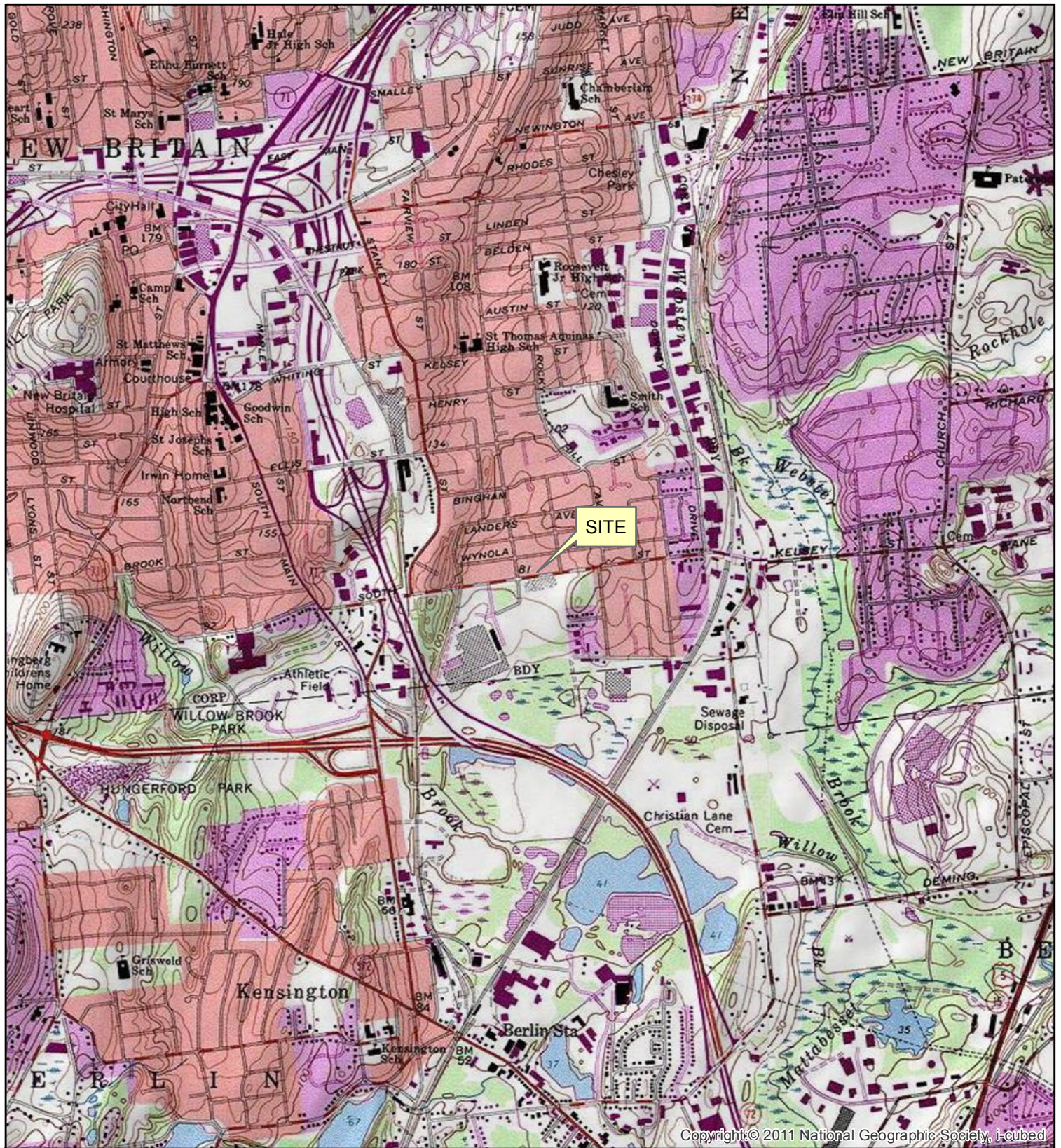
TABLE 4
INTERIOR CEILING PCB RESULTS
326 South Street
New Britain, CT

Room	Sample ID	Material	Sample Date	Units	Reporting Limit	Regulatory Criteria	Aroclor 1248	Aroclor 1254	Aroclor 1260	Aroclor 1268	All other Aroclors	Total PCBs
Atlas Compressor Room	A4-Ceil-1	Hexane Wipe	12/24/2012	µg/100cm ²	0.5	10	*	ND	ND	ND	ND	0.8
CFC Main Plant	A10-Ceil-1	Hexane Wipe	12/24/2012	µg/100cm ²	0.5	10	0.5	ND	ND	ND	ND	0.5
CFC Main Plant	A10-Ceil-2	Hexane Wipe	12/24/2012	µg/100cm ²	0.5	10	ND	ND	ND	ND	ND	ND
CFC Main Plant	A10-Ceil-3	Hexane Wipe	12/24/2012	µg/100cm ²	0.5	10	ND	ND	ND	ND	ND	ND
CFC Main Plant	A10-Ceil-4	Hexane Wipe	12/24/2012	µg/100cm ²	0.5	10	ND	ND	ND	ND	ND	ND
CFC Main Plant	A10-Ceil-5	Hexane Wipe	12/24/2012	µg/100cm ²	0.5	10	ND	ND	ND	ND	ND	ND
CFC Main Plant	A10-Ceil-11	Hexane Wipe	12/24/2012	µg/100cm ²	0.5	10	ND	ND	ND	ND	ND	ND
CFC Main Plant	A10-Ceil-12	Hexane Wipe	12/24/2012	µg/100cm ²	0.5	10	ND	ND	ND	ND	ND	ND
CFC Main Plant	A10-Ceil-13	Hexane Wipe	12/24/2012	µg/100cm ²	0.5	10	ND	ND	ND	ND	ND	ND
CFC Oil Storage Room	A11-Ceil-1	Hexane Wipe	12/24/2012	µg/100cm ²	0.5	10	ND	ND	ND	ND	ND	ND
CFC Grinding Room	A12-Ceil-1	Hexane Wipe	12/24/2012	µg/100cm ²	0.5	10	ND	ND	ND	ND	ND	ND
CFC Grinding Room	A12-Ceil-2	Hexane Wipe	12/24/2012	µg/100cm ²	0.5	10	ND	ND	ND	ND	ND	ND
CFC Grinding Room	A12-Ceil-3	Hexane Wipe	12/24/2012	µg/100cm ²	0.5	10	ND	ND	ND	ND	ND	ND
CFC Grinding Room	A12-Ceil-4	Hexane Wipe	12/24/2012	µg/100cm ²	0.5	10	ND	ND	ND	ND	ND	ND
CFC Grinding Room	A12-Ceil-5	Hexane Wipe	12/24/2012	µg/100cm ²	0.5	10	ND	ND	ND	ND	ND	ND

Notes:

1. Samples were collected by GZA GeoEnvironmental, Inc. December 24, 2012
2. Samples were analyzed by Phoenix Environmental Laboratory, Inc. in Manchester, CT.
3. Regulatory Criteria refers to TSCA allowable limit for continued use of porous surfaces (concrete).
4. Shaded and bold analysis exceed the TSCA allowable limit.
5. ND = Not detected above the laboratory reporting limit for this compound.
6. "*" indicates individual Aroclors could not be determined.
7. "µg" is micrograms.

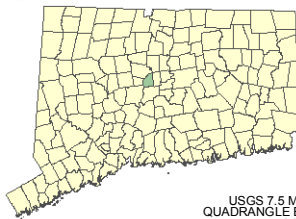
FIGURES



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Engineers and Scientists
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USGS 7.5 MINUTE
QUADRANGLE BASE MAP
NEW BRITAIN, CONNECTICUT
1997

SITE LOCUS

**326 SOUTH STREET
NEW BRITAIN, CONNECTICUT**

Source: TOPO! maps are USGS topographic maps, Copyright: © 2011 National Geographic Society, i-cubed and are provided by arcgisonline.com.

PROJ MGR: JTH

REVIEWED BY: JTH

PROJECT NO. 05.0043369.82

DESIGNED BY: AJT

DRAWN BY: MJS

DATE: 06-13-13

THIS MAP HAS BEEN COMPILED FROM OTHER MAPS AND/OR SOURCES OF INFORMATION.
THIS MAP SHOULD NOT BE CONSTRUED AS A PROPERTY SURVEY, NOR USED FOR CONSTRUCTION PURPOSES.

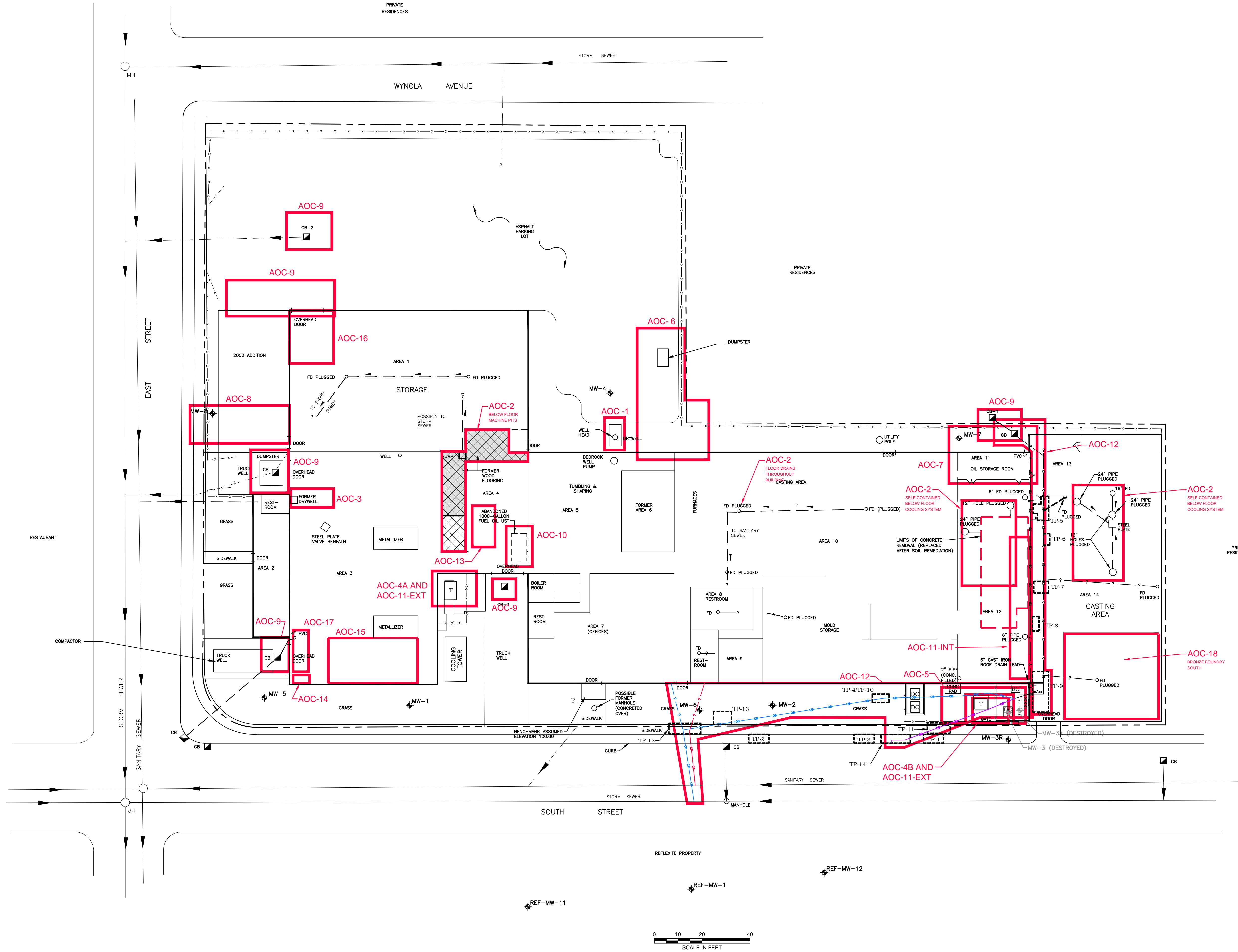
0 1,000 2,000 4,000 6,000 8,000

Scale in Feet



FIGURE

1



LEGEND

---	PROPERTY BOUNDARY
-x-x-x-	FENCE
○ FD	FLOOR DRAIN
■ CB-1	CATCH BASIN
▨	FORMER AND EXISTING FLOOR PIT - BACKFILLED
▨	FORMER AND EXISTING FLOOR PIT - OPEN
+	MONITORING WELL
?	PRESUMED, BUT UNCONFIRMED LOCATION OF STORM DRAIN LINE
—	DUCTILE IRON PIPE
—	ORANGEBURG PIPE
—	PVC PIPE
T	TRANSFORMER
DC	DUST COLLECTOR
□	AREA OF CONCERN (AOC)

NOTES:

- SITE PLAN BASED ON MAP PROVIDED BY NEW BRITAIN TAX ASSESSOR'S OFFICE AND PLANS PROVIDED IN ENVIRONMENTAL ASSURANCE INC. REPORTS MAY, 1988 AND NOVEMBER, 1989.
- INTERIOR DIMENSIONS OF AREAS AND ALL LOCATIONS ARE APPROXIMATE BASED ON OBSERVATIONS MADE BY GZA DURING SITE VISITS.
- CONNECTIONS AND LOCATIONS OF SANITARY AND STORM SEWERS OUTSIDE BUILDING ARE BASED ON PLANS AND INFORMATION PROVIDED BY NEW BRITAIN DEPARTMENT OF PUBLIC WORKS.

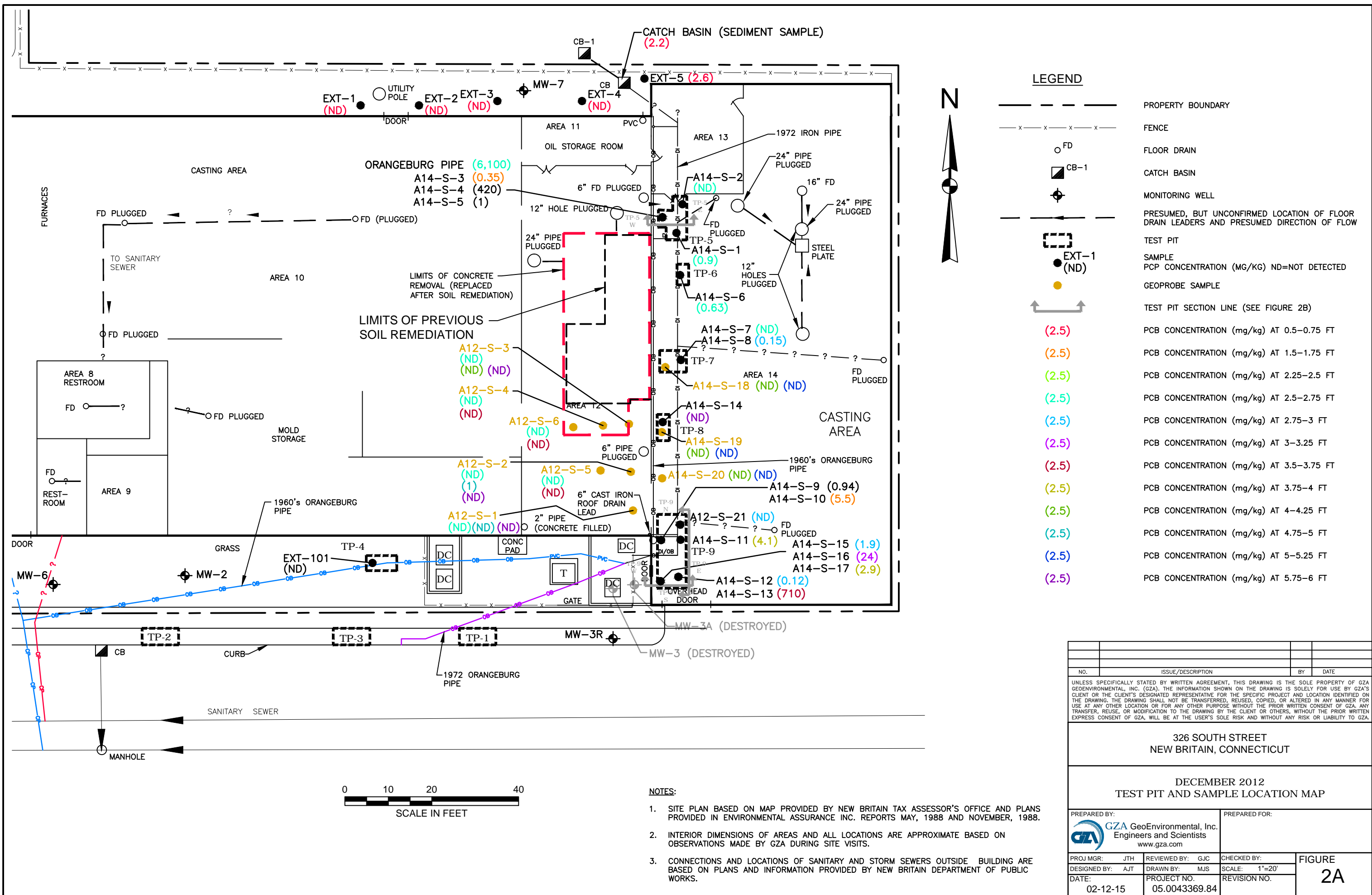
**326 SOUTH STREET
NEW BRITAIN, CONNECTICUT**

SITE PLAN

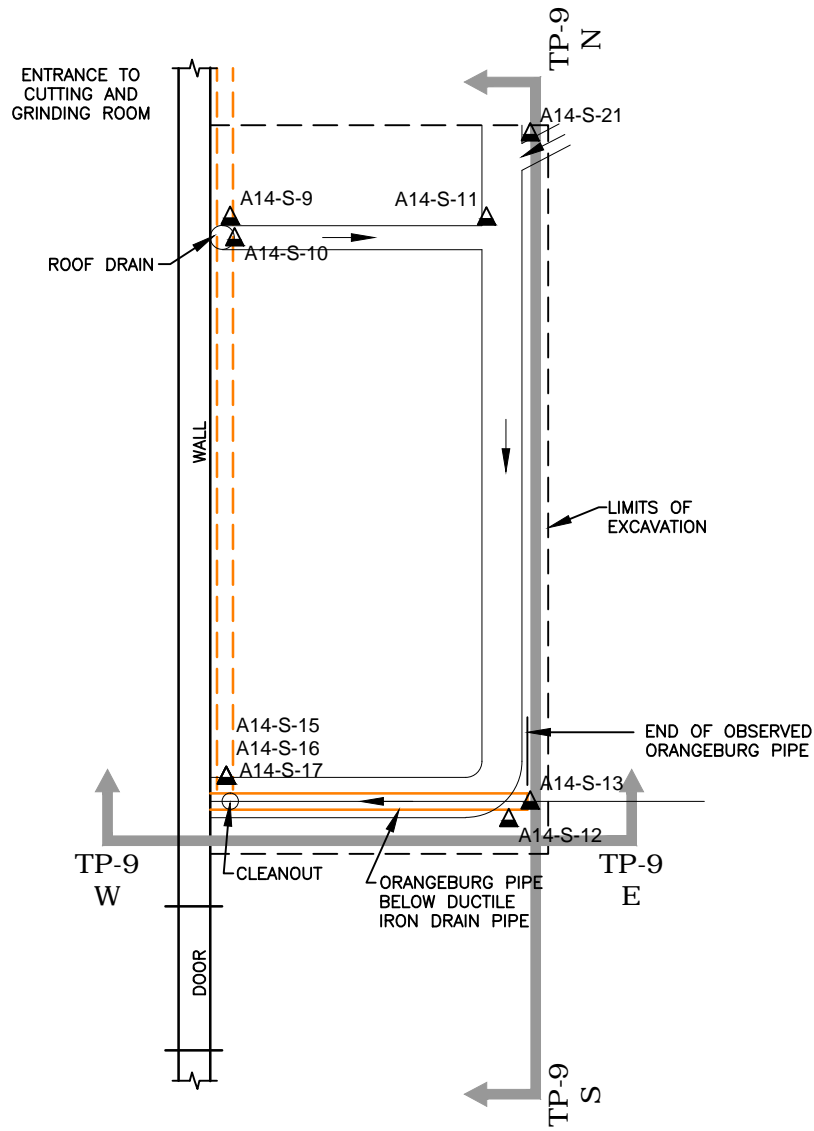
PREPARED BY: **GZA GeoEnvironmental, Inc.**
Engineers and Scientists
www.gza.com

PREPARED FOR:

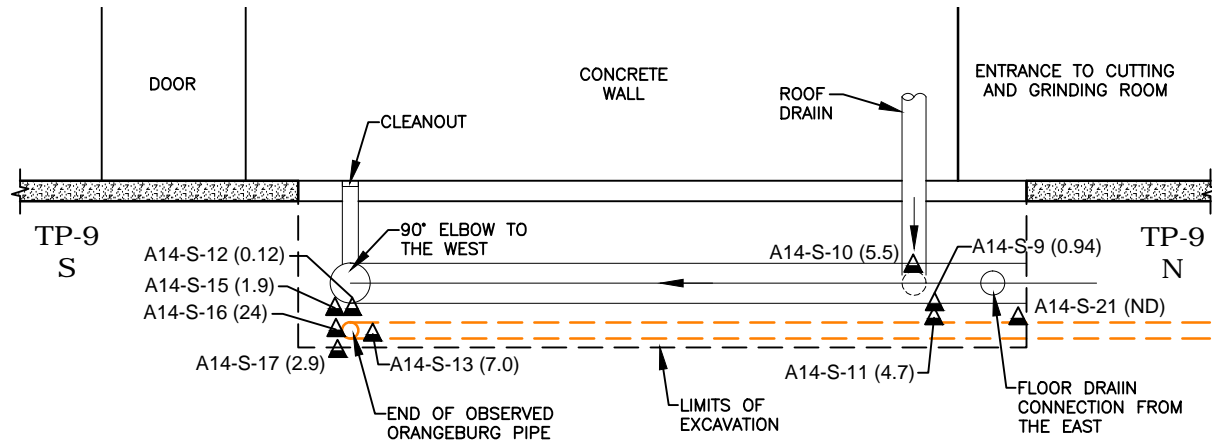
PROJ MGR: JTH	REVIEWED BY: JTH	CHECKED BY:	FIGURE 2
DESIGNED BY: AJT	DRAWN BY: MJS/VKGW	SCALE: 1"=20'	
DATE: 02-12-15	PROJECT NO. 05.0043369.84	REVISION NO.	



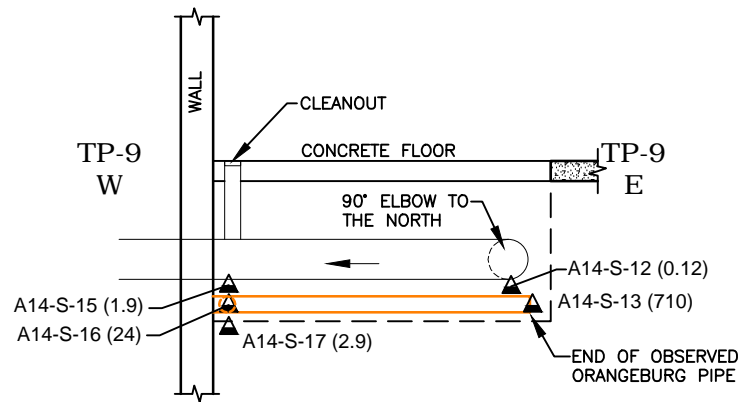
© 2013 - GZA GeoEnvironmental, Inc. GZA-i:\43,000-43,499\43369.q46\43369.84 ECAF finalize 2 reports\CAD\Figures\TSCA\FIG 2B DECEMBER 2012 TEST PIT CROSS SECTIONS.dwg [FIGURE 2B] February 12, 2015 - 12:17pm max.stubel



TP-9 PLAN VIEW



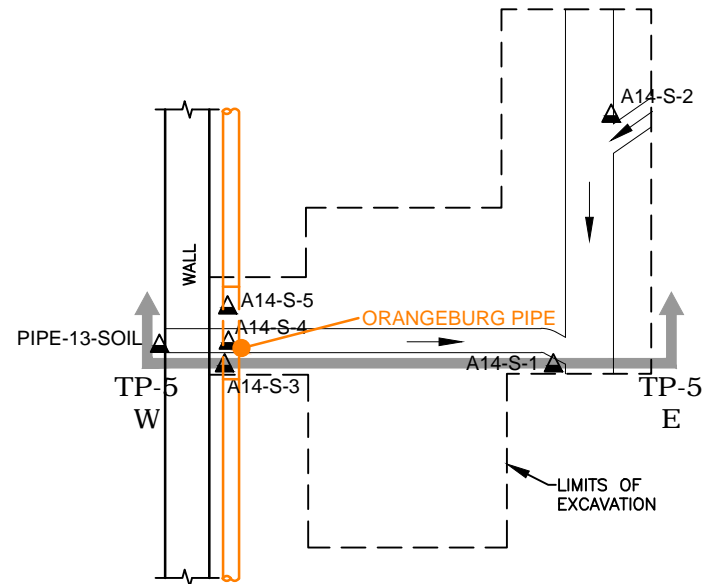
TP-9 S-N CROSS SECTION



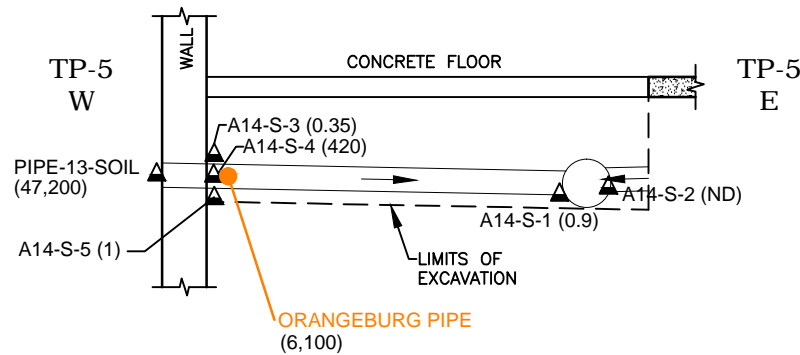
TP-9 W-E CROSS SECTION

LEGEND

- DUCTILE IRON PIPE
- ORANGEBURG PIPE
- PRESUMED FORMER ORANGEBURG PIPE
- FLOW DIRECTION
- SOIL SAMPLE (PCB CONCENTRATION IN mg/Kg)
ND=NON DETECT
- ORANGEBURG PIPE SAMPLE



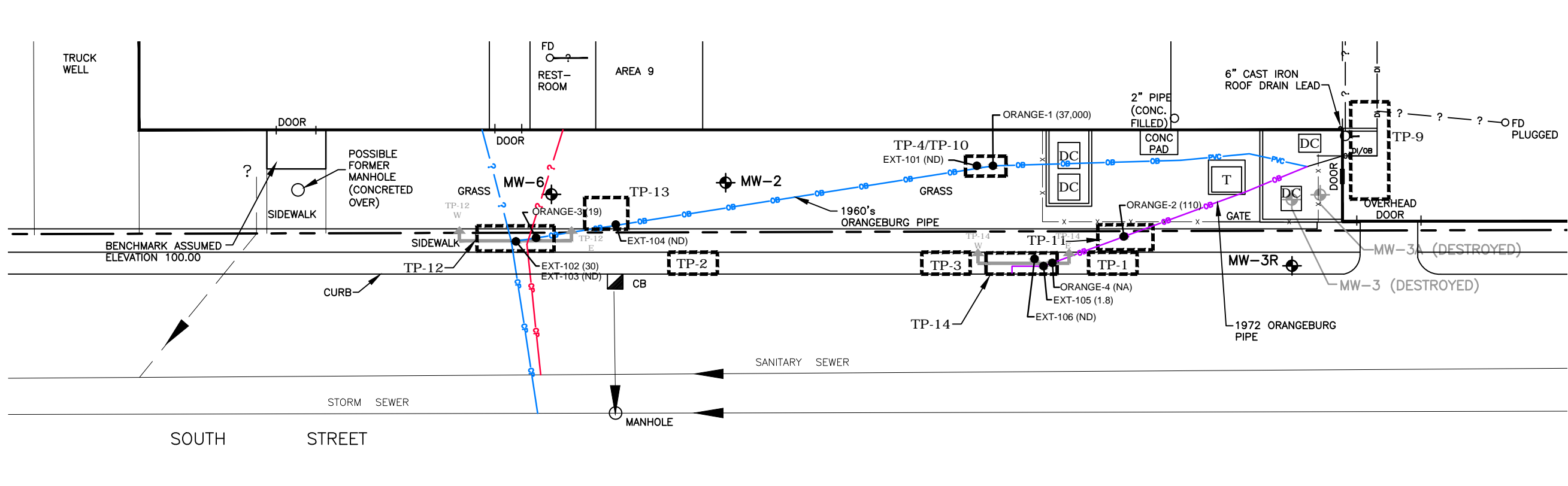
TP-5 PLAN VIEW



TP-5 CROSS SECTION

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326 SOUTH STREET NEW BRITAIN, CONNECTICUT				
DECEMBER 2012 TEST PIT CROSS SECTIONS				
PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com			PREPARED FOR:	
PROJ MGR: JTH	REVIEWED BY: JTH	CHECKED BY:	FIGURE 2B	
DESIGNED BY: BAG	DRAWN BY: MJS	SCALE: 1"=4'		
DATE: 02-12-15	PROJECT NO. 05.0043369.84	REVISION NO.		

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LEGEND

---	PROPERTY BOUNDARY
-x-x-x-x-	FENCE
○ FD	FLOOR DRAIN
▣ CB-1	CATCH BASIN
⊕	MONITORING WELL
● EXT-102 (30)	SAMPLE (PCB CONCENTRATION IN mg/kg) ND=NOT DETECTED
—CP—	SANITARY SEWER LINE
—OB—	1960s STORM DRAIN LINE
—PVC—	1972 STORM DRAIN LINE
CP	CLAY PIPE
OB	ORANGEBURG PIPE
PVC	POLYVINYL CHLORIDE PIPE
DI	DUCTILE IRON PIPE
NA	SAMPLE COLLECTED BUT NOT ANALYZED

NOTES:

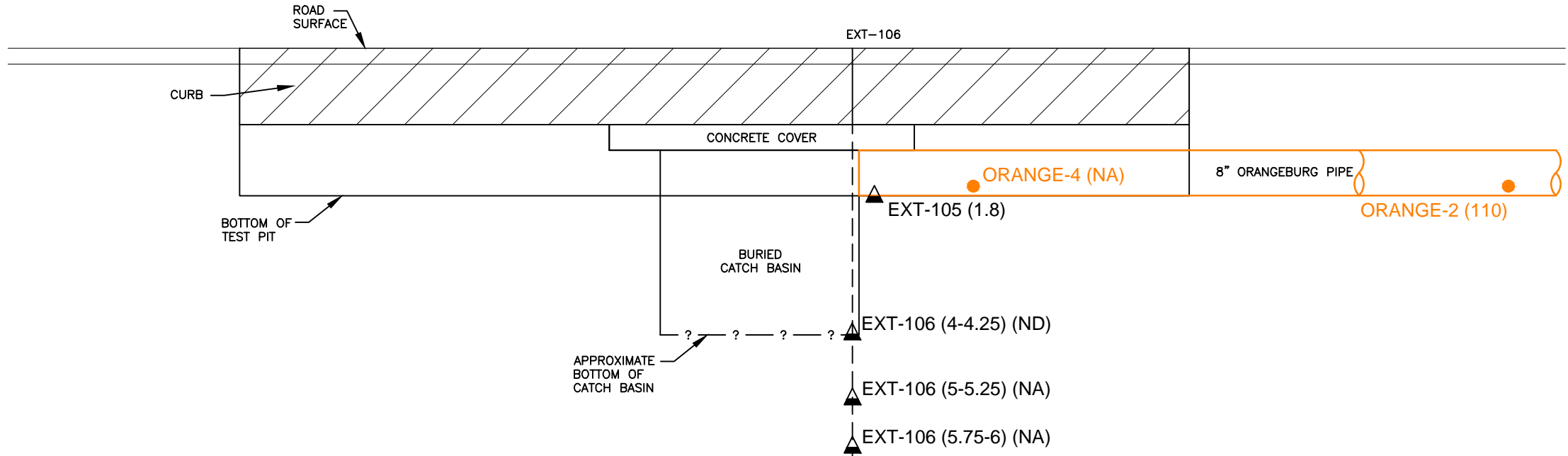
1. SITE PLAN BASED ON MAP PROVIDED BY NEW BRITAIN TAX ASSESSOR'S OFFICE AND PLANS PROVIDED IN ENVIRONMENTAL ASSURANCE INC. REPORTS MAY, 1988 AND NOVEMBER, 1988.
2. INTERIOR DIMENSIONS OF AREAS AND ALL LOCATIONS ARE APPROXIMATE BASED ON OBSERVATIONS MADE BY GZA DURING SITE VISITS.
3. CONNECTIONS AND LOCATIONS OF SANITARY AND STORM SEWERS OUTSIDE BUILDING ARE BASED ON PLANS AND INFORMATION PROVIDED BY NEW BRITAIN DEPARTMENT OF PUBLIC WORKS.

NO.	ISSUE/DESCRIPTION	BY	DATE
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326 SOUTH STREET NEW BRITAIN, CONNECTICUT			
JULY 2013 TEST PIT AND SAMPLE LOCATION MAP			
PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR:	
PROJ MGR: JTH	REVIEWED BY: JTH	CHECKED BY:	FIGURE 2C SHEET NO.
DESIGNED BY: AJT	DRAWN BY: MJS	SCALE: 1"=20'	
DATE: 02-12-15	PROJECT NO. 05.0043369.84	REVISION NO.	

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TP-14 W

TP-14 E

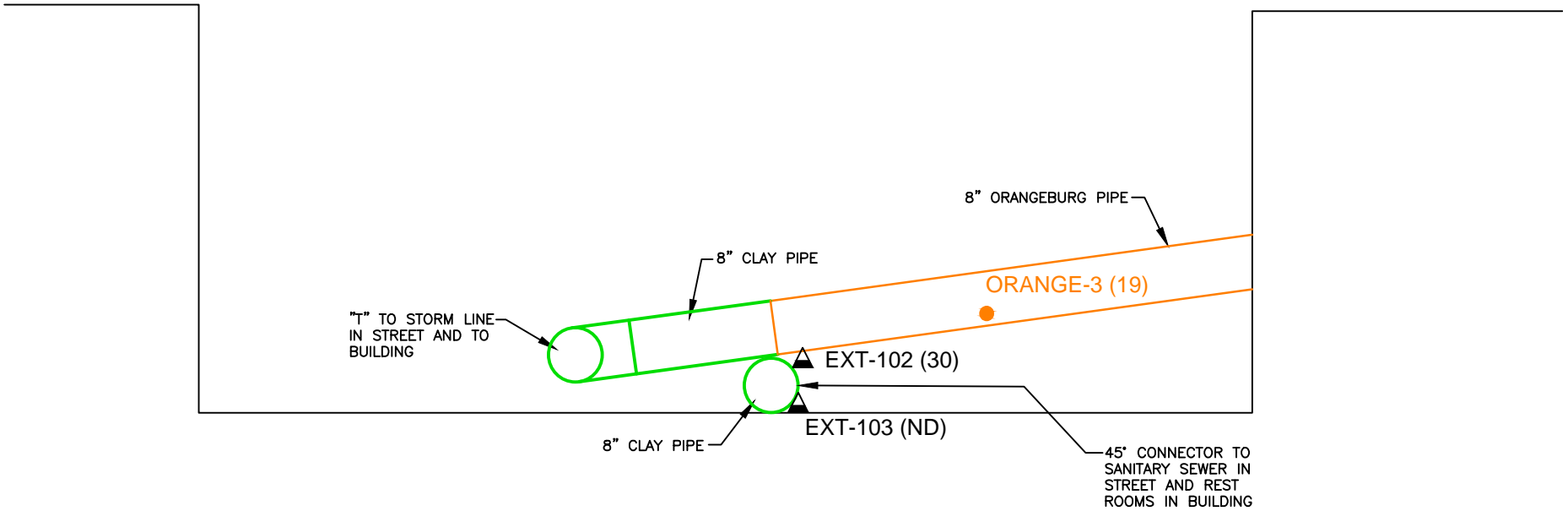


TP-14 CROSS SECTION

SCALE: 1"=2'

TP-12 W

TP-12 E



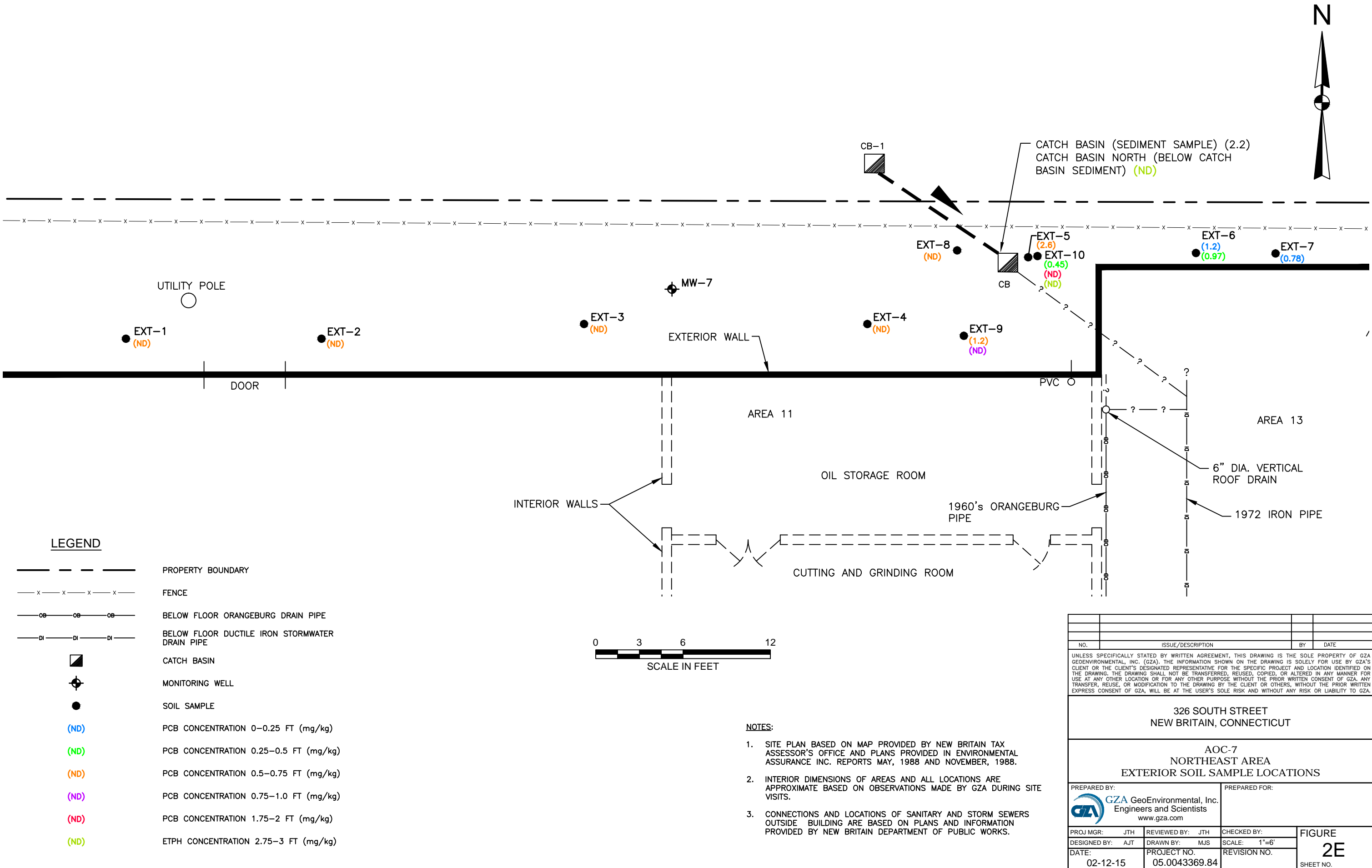
TP-12 CROSS SECTION

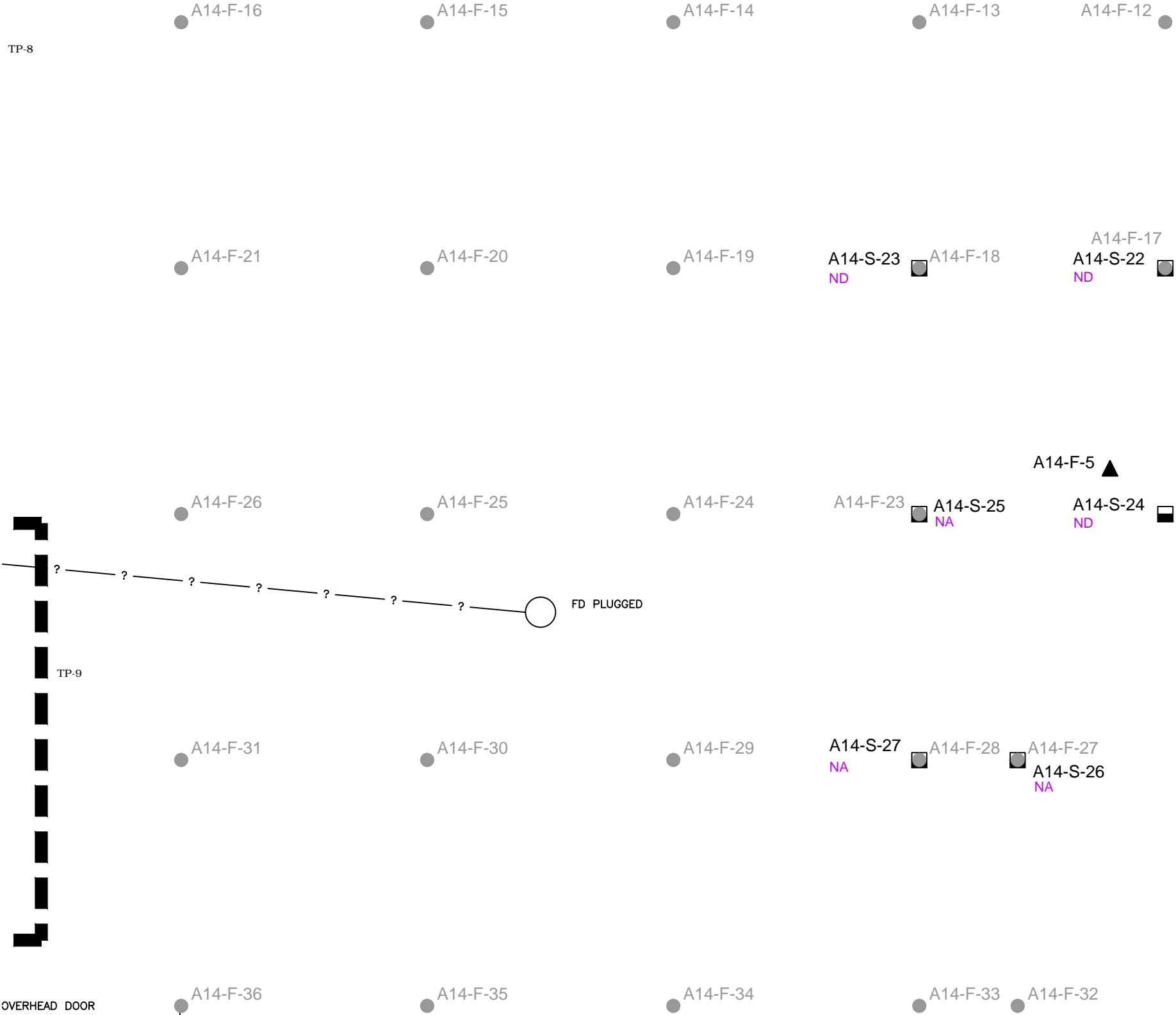
SCALE: 1"=2'

LEGEND

	CLAY PIPE
	ORANGEBURG PIPE
	ORANGEBURG PIPE SAMPLE (PCB CONCENTRATION IN mg/Kg)
	A14-S-12 (0.12) SOIL SAMPLE (PCB CONCENTRATION IN mg/Kg) ND=NON DETECT
NA	SAMPLE COLLECTED BUT NOT ANALYZED

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326 SOUTH STREET NEW BRITAIN, CONNECTICUT				
TEST PIT CROSS SECTIONS				
PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com			PREPARED FOR:	
PROJ MGR: JTH	REVIEWED BY: JTH	CHECKED BY:	FIGURE	
DESIGNED BY: AJT	DRAWN BY: MJS	SCALE: AS NOTED	2D	
DATE: 02-12-15	PROJECT NO. 05.0043369.84	REVISION NO.	SHEET NO.	





LEGEND

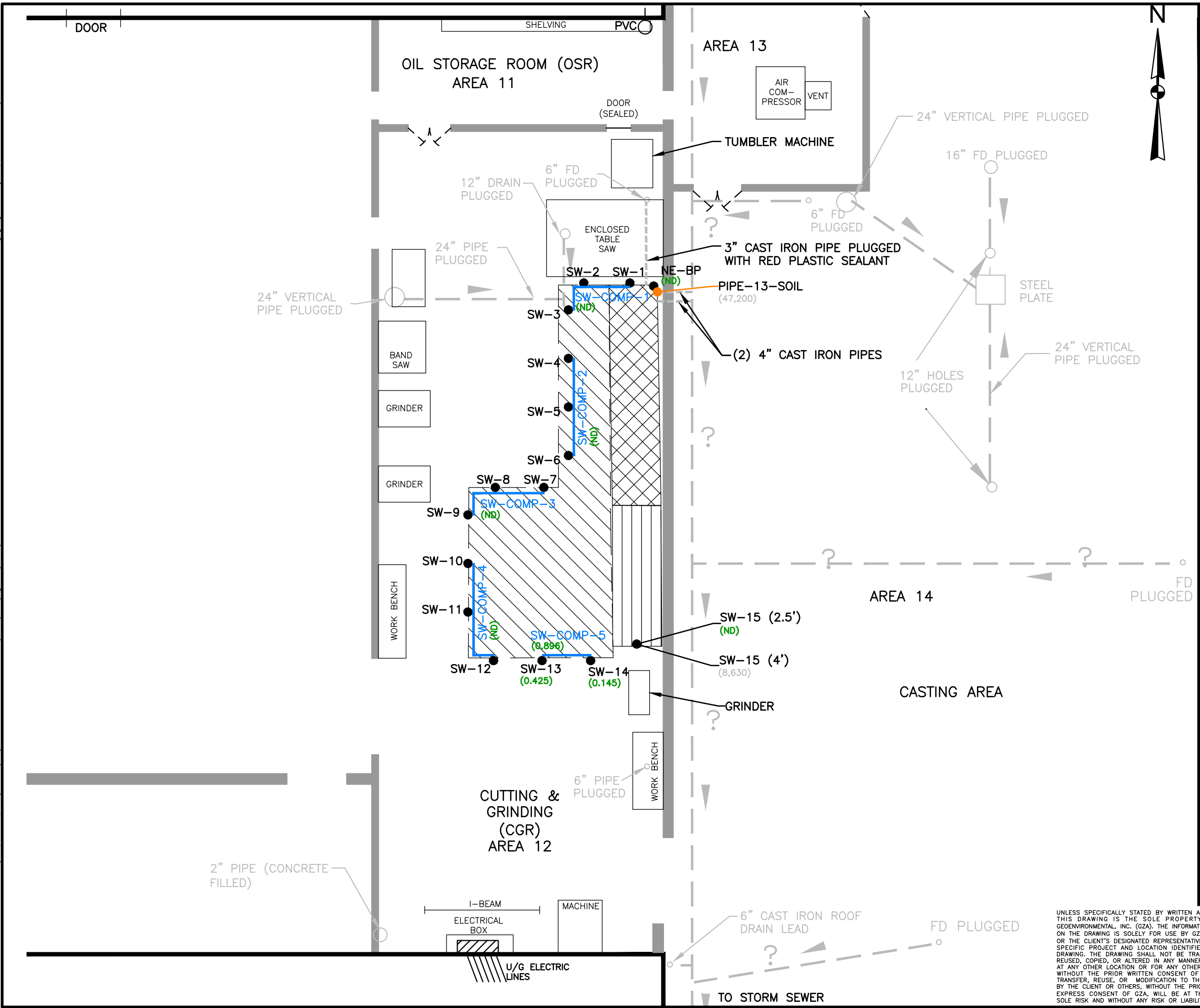
- PROPERTY BOUNDARY
- FLOOR DRAIN
- SOIL SAMPLE JUNE 2013 PCB CONCENTRATION 0.0"-0.25" BELOW CONCRETE FLOOR (mg/kg)
- SOIL SAMPLE NOT ANALYZED
- CONCRETE FLOOR SAMPLE JUNE 2013
- CONCRETE FLOOR SAMPLE DECEMBER 2012

NOTES:

- SITE PLAN BASED ON MAP PROVIDED BY NEW BRITAIN TAX ASSESSOR'S OFFICE AND PLANS PROVIDED IN ENVIRONMENTAL ASSURANCE INC. REPORTS MAY, 1988 AND NOVEMBER, 1988.
- INTERIOR DIMENSIONS OF AREAS AND ALL LOCATIONS ARE APPROXIMATE BASED ON OBSERVATIONS MADE BY GZA DURING SITE VISITS.

NO.	ISSUE/DESCRIPTION	BY	DATE
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326 SOUTH STREET NEW BRITAIN, CONNECTICUT			
AOC-18 BRONZE FOUNDRY SOUTH SOIL SAMPLE LOCATIONS			
PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR:	
PROJ MGR: JTH	REVIEWED BY: JTH	CHECKED BY:	FIGURE 2F SHEET NO.
DESIGNED BY: AJT	DRAWN BY: MJS	SCALE: 1"=5'	
DATE: 02-12-15	PROJECT NO. 05.0043369.84	REVISION NO.	

©2013- GZA GeoEnvironmental, Inc. GZA-JL-43,000-43,499\43369.q46\43369.84 ECAF finalize 2 reports\CAD\Figures\TSCA\FIG 2G POST-EXCAVATION SOIL CONFIRMATION SIDE WALL SAMPLE LOCATIONS.dwg [2G] February 12, 2015 - 12:22pm max.strubel

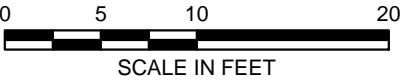


NOTES:

1. SITE PLAN BASED ON MAP PROVIDED BY NEW BRITAIN TAX ASSESSOR'S AND PLANS PROVIDED IN ENVIRONMENTAL ASSURANCE INC. REPORTS MAY, 1988 OFFICE AND NOVEMBER, 1988.
2. INTERIOR DIMENSIONS OF AREAS AND ALL LOCATIONS ARE APPROXIMATE BASED ON OBSERVATIONS MADE BY GZA DURING SITE VISITS. CONNECTIONS AND LOCATIONS OF SANITARY AND STORM SEWERS OUTSIDE.

LEGEND

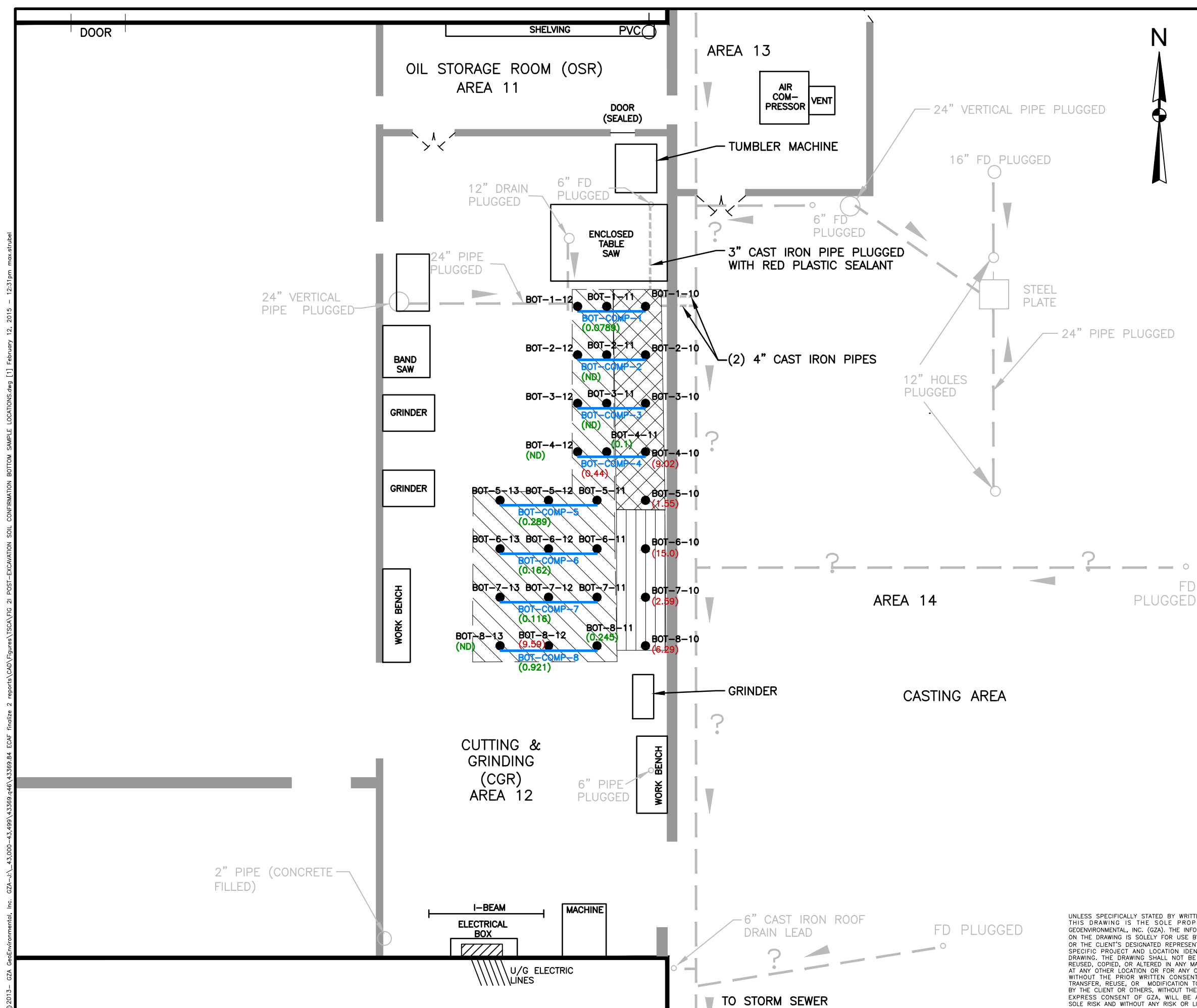
- EXTERIOR WALL
- INTERIOR WALL
- BELOW FLOOR DRAIN PIPE
- EXCAVATION SIDE WALL SOIL CONFIRMATION SAMPLE
- INDIVIDUAL SOIL SAMPLES INCLUDED IN COMPOSITE SAMPLE
- PIPE-13-SOIL
- SAMPLE OF MATERIAL IN PIPE
- PCBs NOT DETECTED (ND)
- PCB CONCENTRATION BELOW REGULATORY CRITERIA (0.289)
- PCB CONCENTRATION ABOVE REGULATORY CRITERIA (6.29)
- 2.5' DEEP EXCAVATION LIMITS
- 4.0' DEEP EXCAVATION LIMITS
- 4.75' DEEP EXCAVATION LIMITS



POST-EXCAVATION SOIL CONFIRMATION SIDE WALL SAMPLE LOCATIONS			
326 SOUTH STREET NEW BRITAIN, CONNECTICUT			
PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists 655 WINDING BROOK DRIVE SUITE 402 GLASTONBURY, CONNECTICUT 06033 (860) 266-8900		PREPARED FOR:	
PROJ MGR: JTH	REVIEWED BY: GJC	CHECKED BY:	FIGURE 2G
DESIGNED BY: AJT	DRAWN BY: MJS	SCALE: 1"=10'	
DATE: 02-12-15	PROJECT NO.: 05.0043369.84	REVISION NO.:	




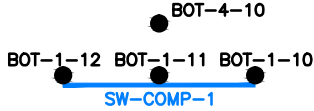



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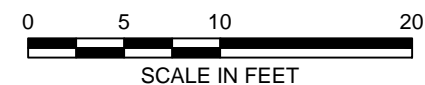
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- NOTES:
1. SITE PLAN BASED ON MAP PROVIDED BY NEW BRITAIN TAX ASSESSOR'S AND PLANS PROVIDED IN ENVIRONMENTAL ASSURANCE INC. REPORTS MAY, 1988 OFFICE AND NOVEMBER, 1988.
 2. INTERIOR DIMENSIONS OF AREAS AND ALL LOCATIONS ARE APPROXIMATE BASED ON OBSERVATIONS MADE BY GZA DURING SITE VISITS. CONNECTIONS AND LOCATIONS OF SANITARY AND STORM SEWERS OUTSIDE.

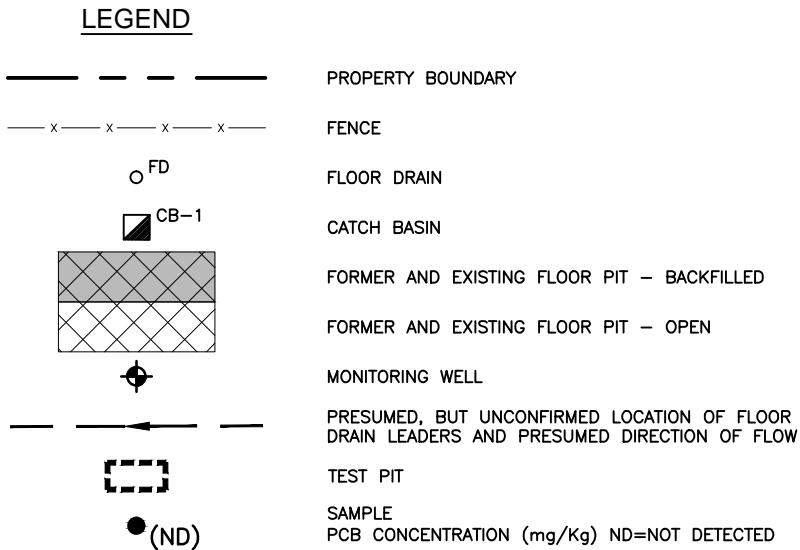
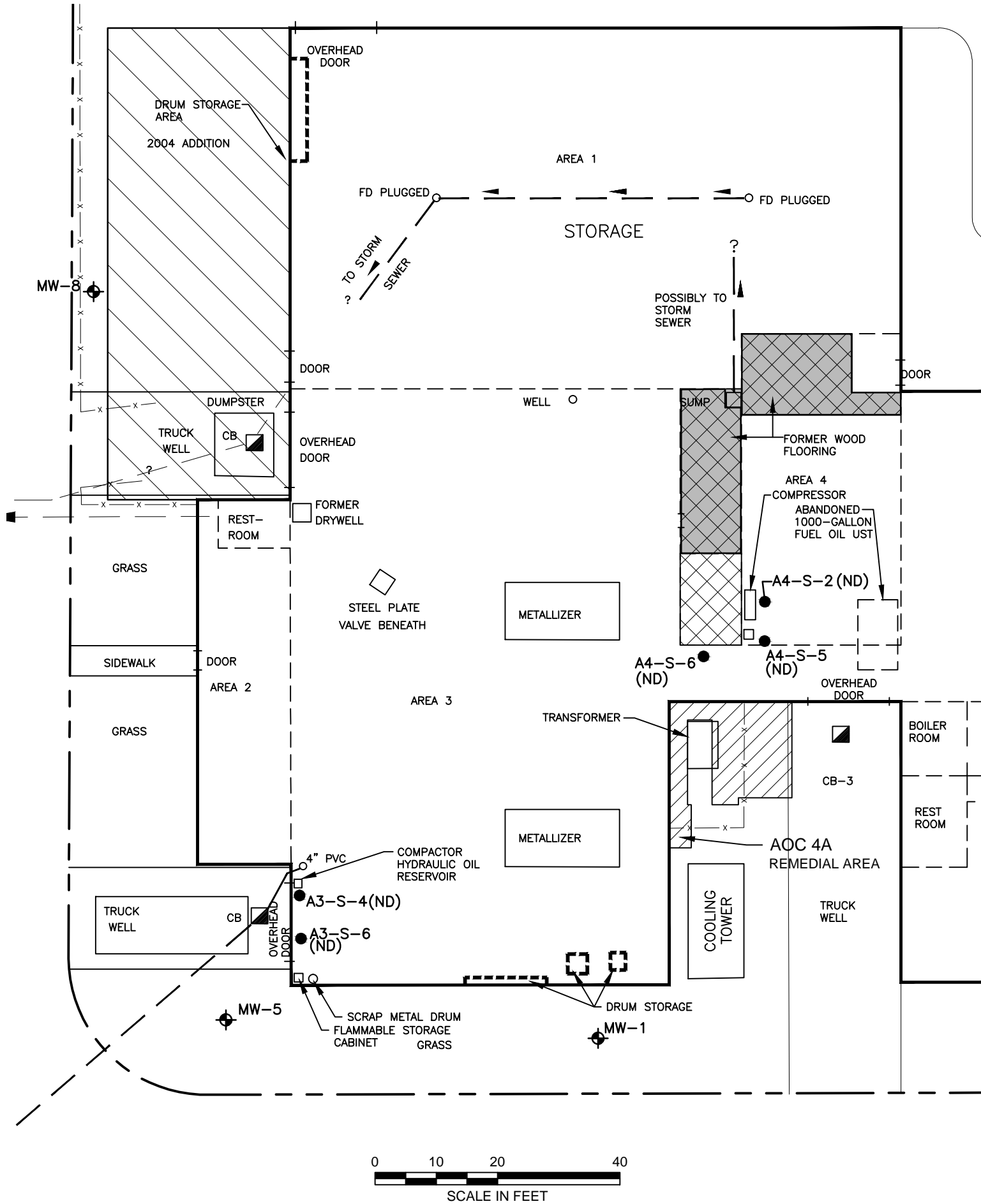
LEGEND

	EXTERIOR WALL
	INTERIOR WALL
	BELOW FLOOR DRAIN PIPE
	EXCAVATION BOTTOM CONFIRMATION SAMPLE INDIVIDUAL SAMPLES INCLUDED IN COMPOSITE SAMPLE
(ND)	PCBs NOT DETECTED
(0.289)	PCB CONCENTRATION BELOW REGULATORY CRITERIA
(6.29)	PCB CONCENTRATION ABOVE REGULATORY CRITERIA
	2.5' DEEP EXCAVATION LIMITS
	4.0' DEEP EXCAVATION LIMITS
	4.75' DEEP EXCAVATION LIMITS




NO.	ISSUE/DESCRIPTION			BY	DATE
POST-EXCAVATION SOIL CONFIRMATION BOTTOM SAMPLE LOCATIONS					
326 SOUTH STREET NEW BRITAIN, CONNECTICUT					
PREPARED BY:  CZA GeoEnvironmental, Inc. Engineers and Scientists 655 WINDING BROOK DRIVE SUITE 402 GLASTONBURY, CONNECTICUT 06033 (860) 286-8900			PREPARED FOR:		
PROJ MGR: JTH		REVIEWED BY: GJC		CHECKED BY:	
DESIGNED BY: AJT		DRAWN BY: MJS		SCALE: 1"=10'	
DATE 02-12-15		PROJECT NO. 05.0043369.84		REVISION NO.	
FIGURE 21					

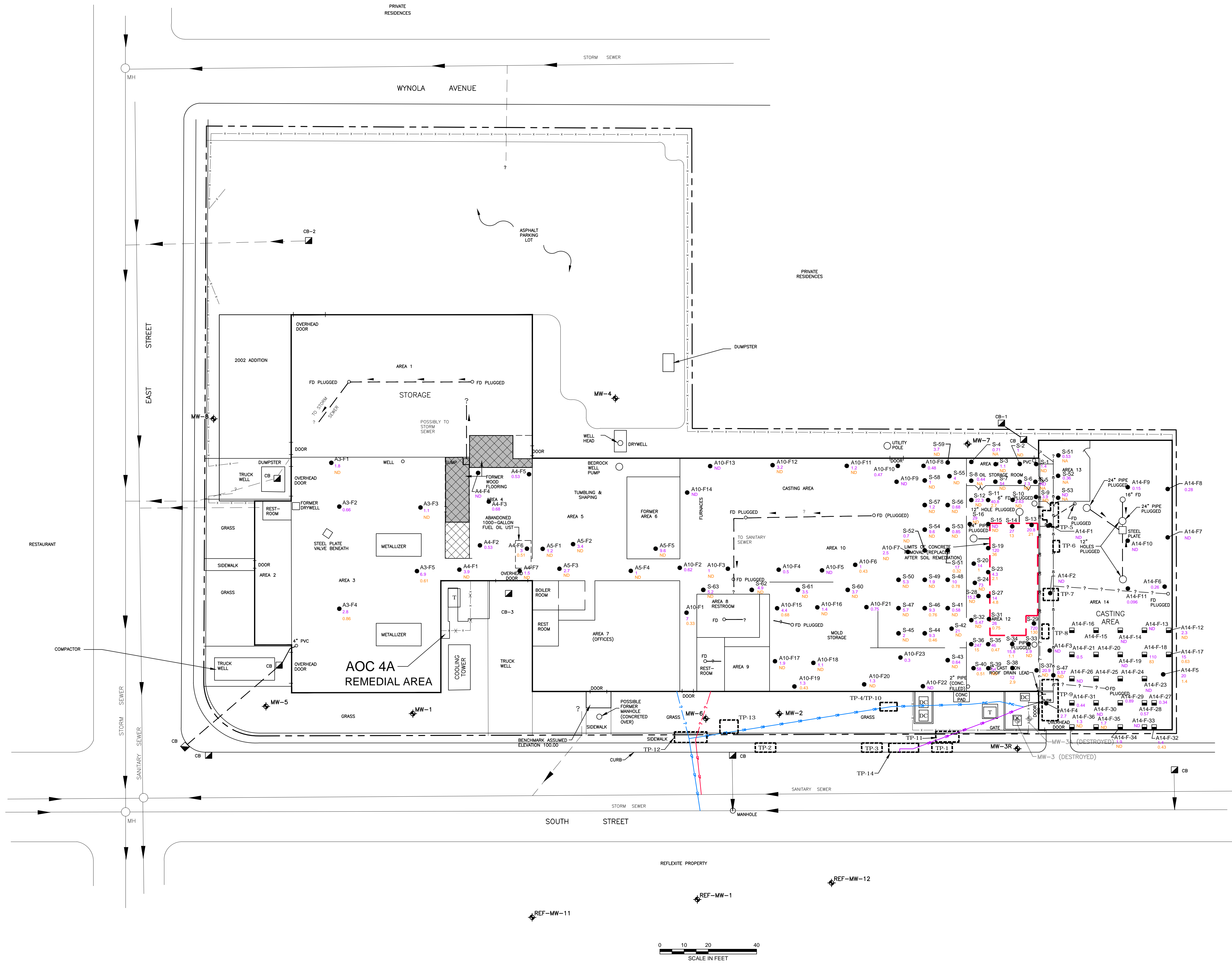
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 - CONNECTIONS AND LOCATIONS OF SANITARY AND STORM SEWERS OUTSIDE BUILDING ARE BASED ON PLANS AND INFORMATION PROVIDED BY NEW BRITAIN DEPARTMENT OF PUBLIC WORKS.

NO.	ISSUE/DESCRIPTION	BY	DATE
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326 SOUTH STREET NEW BRITAIN, CONNECTICUT			
ATLAS SOIL SAMPLE LOCATION MAP			
PREPARED BY:  GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR:	
PROJ MGR: JTH	REVIEWED BY: GJC	CHECKED BY:	FIGURE 2J SHEET NO.
DESIGNED BY: AJT	DRAWN BY: MJS	SCALE: 1"=20'	
DATE: 02-12-15	PROJECT NO. 05.0043369.84	REVISION NO.	

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LEGEND

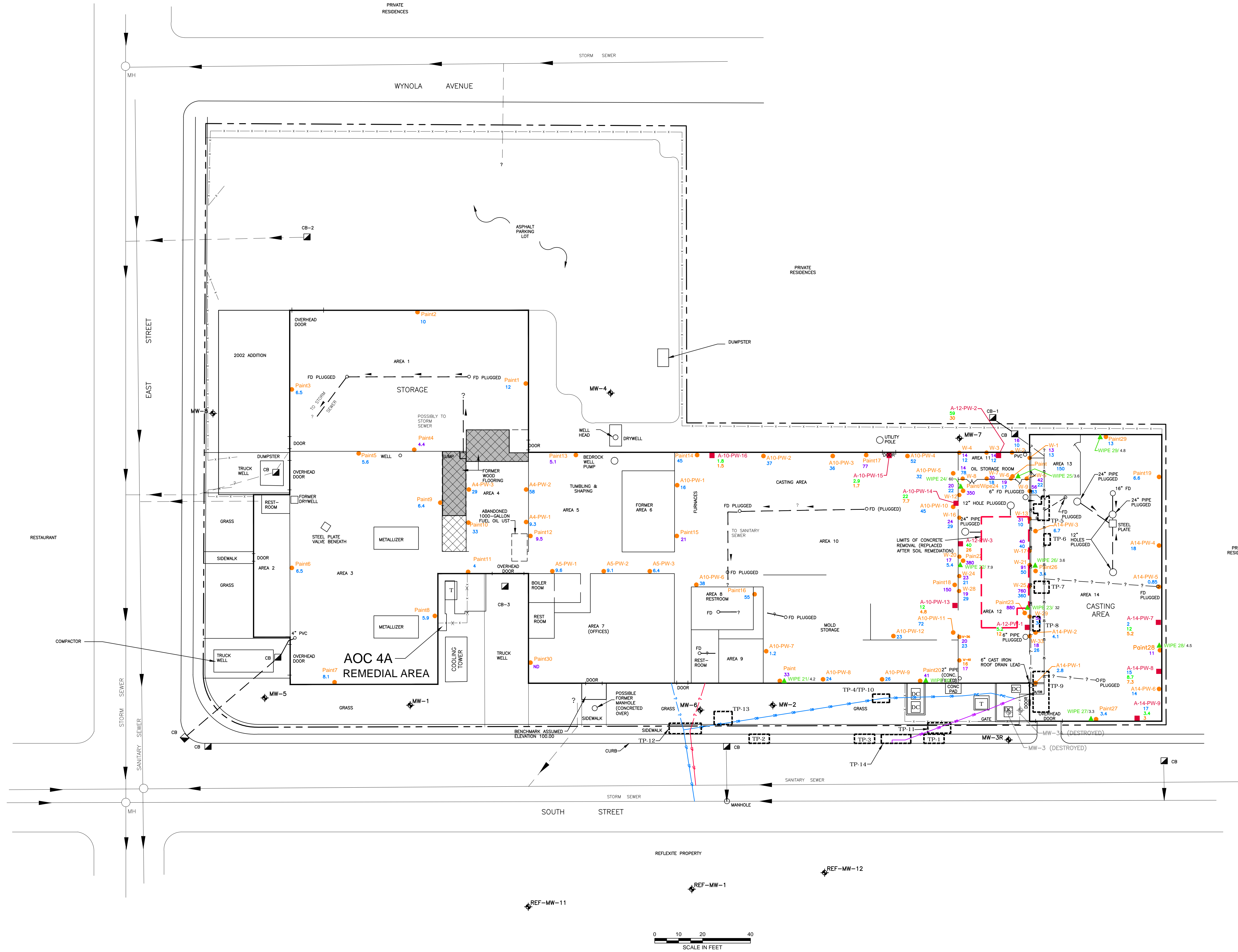
- PROPERTY BOUNDARY
- FENCE
- FLOOR DRAIN
- CATCH BASIN
- FORMER AND EXISTING FLOOR PIT - BACKFILLED
- FORMER AND EXISTING FLOOR PIT - OPEN
- MONITORING WELL
- PRESUMED, BUT UNCONFIRMED LOCATION OF FLOOR DRAIN LEADERS AND PRESUMED DIRECTION OF FLOW
- FLOOR REMEDIATION AND REPLACEMENT AREA
- CONCRETE FLOOR SAMPLE
- PCB CONCENTRATION 0.07-0.57 BGS (mg/kg)
- PCB CONCENTRATION 0.57-1.1 BGS (mg/kg) ND=NOT DETECTED
- CONCRETE FLOOR SAMPLE JUNE 2013
- PCB CONCENTRATION 0.07-0.57 BGS (mg/kg) ND=NOT DETECTED

NOTES

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- CONNECTIONS AND LOCATIONS OF SANITARY AND STORM SEWERS OUTSIDE BUILDING ARE BASED ON PLANS AND INFORMATION PROVIDED BY NEW BRITAIN DEPARTMENT OF PUBLIC WORKS.

326 SOUTH STREET NEW BRITAIN, CONNECTICUT			
CONCRETE FLOOR SAMPLE LOCATIONS			
PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR:	
PROJ MGR: JTH	REVIEWED BY: JTH	CHECKED BY: MUS	FIGURE
DESIGNED BY: AJT	DRAWN BY: MUS	SCALE: 1"=20'	3
DATE: 02-12-15	PROJECT NO. 05.0043369.84	REVISION NO.	

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LEGEND

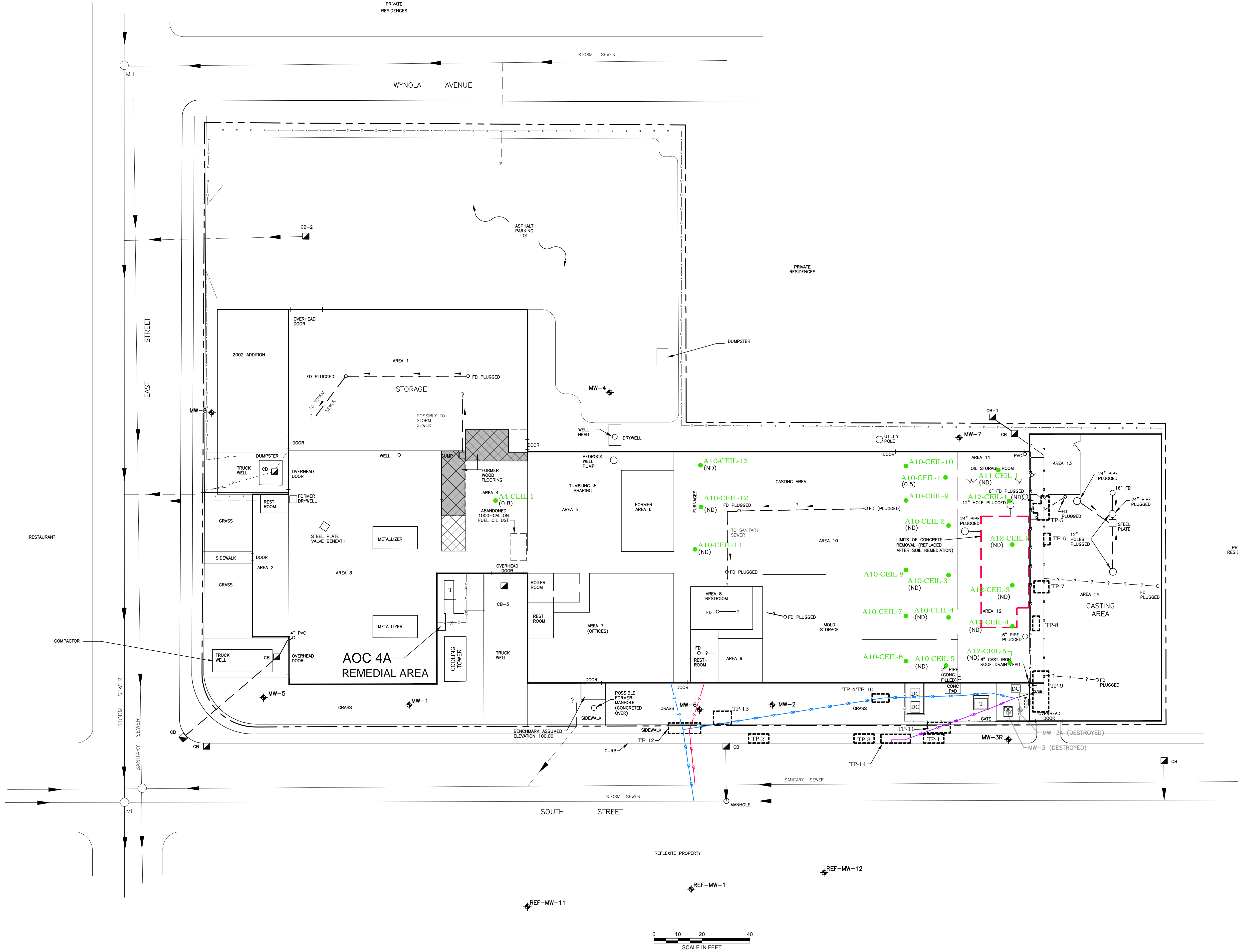
- PROPERTY BOUNDARY
- FENCE
- CATCH BASIN
- PRESUMED, BUT UNCONFIRMED LOCATION OF FLOOR DRAIN LEADERS AND PRESUMED DIRECTION OF FLOW
- MONITORING WELL
- PAINT/WALL SAMPLE
- PAINT/WALL SAMPLE JULY 2013
- PCB CONCENTRATION 1-2 FT. UP WALL (mg/kg)
- PCB CONCENTRATION 4 FT. UP WALL (mg/kg)
- PCB CONCENTRATION 10 FT. UP WALL (mg/kg)
- PCB CONCENTRATION 15 FT. UP WALL (mg/kg)
- WALL WIPE SAMPLE/PCBs IN $\mu\text{g}/100\text{ cm}^2$

NOTES

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- CONNECTIONS AND LOCATIONS OF SANITARY AND STORM SEWERS OUTSIDE BUILDING ARE BASED ON PLANS AND INFORMATION PROVIDED BY NEW BRITAIN DEPARTMENT OF PUBLIC WORKS.

326 SOUTH STREET NEW BRITAIN, CONNECTICUT			
PAINT/WALL SAMPLE LOCATIONS			
PREPARED BY:	GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		
PREPARED FOR:			
PROJ MGR:	JTH	REVIEWED BY:	JTH
DESIGNED BY:	AJT	CHECKED BY:	MUS
DATE:	02-12-15	DRAWN BY:	AJT
		PROJECT NO.	05.0043369.84
		REVISION NO.	
		SCALE:	1"=20'
		FIGURE	4
		SHEET NO.	

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- LEGEND**
- PROPERTY BOUNDARY
 - FENCE
 - CATCH BASIN
 - FORMER AND EXISTING FLOOR PIT - BACKFILLED
 - FORMER AND EXISTING FLOOR PIT - OPEN
 - MONITORING WELL
 - CEILING WIRE SAMPLE (DECEMBER 2012)
PCB CONCENTRATION (10 µg/100 cm²)

- NOTES:**
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326 SOUTH STREET NEW BRITAIN, CONNECTICUT			
CEILING SAMPLE LOCATIONS			
PREPARED BY:  GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR:	
PROJ MGR: JTH	REVIEWED BY: JTH	CHECKED BY:	FIGURE
DESIGNED BY: BAG	DRAWN BY: MJS	SCALE: 1"=20'	5
DATE:	PROJECT NO.	REVISION NO.	
02-11-15	05.0043369.84		
			SHEET NO.

APPENDIX A LIMITATIONS

GEOHYDROLOGICAL LIMITATIONS

Subsurface Conditions

1. The generalized soil profile(s) provided in our Report and on our subsurface exploration logs are intended only to convey trends in subsurface conditions. The boundaries between strata are approximate and idealized, and were based on our assessment of subsurface conditions. The composition of strata, and the transitions between strata, may be more variable and more complex than indicated. For more specific information on soil conditions at a specific location refer to the exploration logs.
2. Water level readings have been made in test holes and monitoring wells at the specified times and under the stated conditions. These data have been reviewed and interpretations have been made in this report. However, fluctuations in the level of the groundwater occur due to temporal or spatial variations in areal recharge rates, soil heterogeneities, the presence of subsurface utilities, and/or natural or artificially induced perturbations. The observed water table may be other than indicated in the Report.

Compliance with Codes and Regulations

3. We used reasonable care in identifying and interpreting applicable codes and regulations. These codes and regulations are subject to various, and possibly contradictory, interpretations. Interpretations and compliance with codes and regulations by other parties is beyond our control.

Screening and Analytical Testing

4. We collected environmental samples at the locations identified in the report. These samples were analyzed for the specific parameters identified in the report. Additional constituents, for which analyses were not conducted, may be present in soil, groundwater, surface water, and/or air. Future Site activities and uses may result in a requirement for additional testing.
5. Our interpretation of field screening and laboratory data is presented in the Report. Unless otherwise noted, we relied upon the laboratory's QA/QC program to validate these data.
6. Variations in the types and concentrations of contaminants observed at a given location or time may occur due to release mechanisms, disposal practices, changes in flow paths, and/or the influence of various physical, chemical, biological or radiological processes. Subsequently observed concentrations may be other than indicated in the Report.

Interpretation of Data

7. Our opinions are based on available information, and on our professional judgment. Additional observations made over time, and/or space, may not support the opinions provided in the Report.

Cost Estimates

8. Unless otherwise stated, our cost estimates are for comparative or general planning purposes. These estimates may involve approximate quantity estimates. Note that these quantity estimates may be not sufficiently accurate to develop construction bids, or to predict the actual cost of work addressed in this Report. Further, since we have no control over the labor and material costs required to plan and execute the anticipated work, our estimates were made based on our experience and readily available information. Actual costs may change over time and could be significantly more, or less, than those indicated in the Report.

Risk Characterization

9. Our risk evaluation was performed in accordance with generally accepted practices of appropriate federal and/or state regulatory agencies, and of other consultants undertaking similar studies at the

same time, for similar purposes, and under similar circumstances. The findings of the risk evaluation are dependent on the numerous assumptions and uncertainties inherent in the risk assessment process. Sources of uncertainty may include Site conditions; Site use; the nature, extent, concentration and distribution of contaminants; and the available toxicity information. Consequently, the findings of the risk assessment are not an absolute characterization of actual risks; but rather serve to highlight potential incremental risks associated with activities indicated in the Report. Actual risks may be other than indicated in the Report.

Additional Services

10. We recommend that we be retained to provide services during any future investigations, design, implementation activities, construction, and/or property development and/or redevelopment at the Site. This will allow us the opportunity to: 1) observe conditions and compliance with our design concepts and opinions; 2) allow for changes in the event that conditions are other than anticipated; 3) provide modifications to our design; and 4) assess the consequences of changes in technologies and/or regulations.

APPENDIX B
TEST PIT/BORING LOGS

SHALLOW SOIL SAMPLE FIELD LOG

GZA GeoEnvironmental, Inc. 655 Winding Brook Drive, Suite 402 Glastonbury, CT 06033 Phone: (860) 286-8900			PROJECT Project Name: <u>Commercial Foundry</u> Location: <u>326 South Street, New Britain, CT</u>				Date: <u>12/22/12</u> Page 1 of 1 File No. <u>43369.82</u> GZA Staff/Sampler: <u>BAG/SJP</u>	
			SAMPLING EQUIPMENT Sample Method/Device: <u>GeoProbe Hand Sampler/Hand Auger</u> <div style="display: flex; justify-content: space-around; font-size: small;"> Grab Hand Auger Hand Core/Borer Dredge Other </div>				OVA/OVM: <u>N/A</u> Calibration Standard: <u>100 ppm</u> Source lamp: <u>10.6 eV</u> Instrument Reading (start): <u>93.6</u> Instrument Reading (finish): <u>99.7</u>	
Air Temperature (°F): <u>65</u> Weather Conditions: <u>Indoor</u>								
Sample ID	Time	Sample Depth (FT)	OVM Reading (PPM)	Odor	Ground Cover (asphlt/cnc.gras)	Cover Thickness (in)	Sample Description	
A4-S-2	850	0-2'	ND	None	Concrete	5	10" recovery, dark brown, medium SAND, some Silt, little Gravel	
A4-S-5	915	0-2'	ND	None	Concrete	4	20" recovery, 0-10": Dark brown, medium SAND, some Silt, little Gravel, 10-20": Dark brown, soft SILT, little Sand and Gravel	
A4-S-6	920	0-2'	ND	None	Concrete	6	20" recovery, 0-3": ASPHALT and BRICK, 3-20": Dark brown, medium SAND and SILT, little Gravel	
A3-S-4	1005	0-2'	ND	Oily	Concrete	8	18" recovery, Dark brown, medium to coarse SAND, little Silt, some Gravel	
A3-S-4	1020	2-4'	ND	Slight oily	-	-	12" recovery, Dark brown, medium SAND, trace Silt, little Gravel	
A4-S-6	920	0-2'	ND	None	Concrete	6	20" recovery, 0-3": ASPHALT and BRICK, 3-20": Dark brown, medium SAND and SILT, little Gravel	
A3-S-6	1030	2-4'	ND	None	-	-	14" recovery, Dark brown, medium SAND and SILT, little Gravel	
SOIL CONDITIONS				DENSITY		ABBREVIATIONS		ORGANIC MATERIALS
Fines (silts & clay)	Too fine to see.	TRACE (TR.)	0-10%	Sand	Silt/Clay	V - Very	F - Fine	Organic Silt: Dark gray to black, light weight, often H2S odor.
Fine sand.	Finest visible particles.	LITTLE (L.)	10-20%	V. Loose	V. Soft	GR - Gray	M - Medium	Humus: Decomposed root/twig/leaf litter - forest areas.
Med. Sand	1/64"-1/16" (granular sugar).	SOME (S.)	20-35%	Loose	Soft	BN - Brown	C - Coarse	Root Mat: Living root fiber structures, found in marshes.
C. Sand	1/6"-1/4" (rock salt).	AND	35-50%	M. Dense	M. Stiff	YEL - Yellow	F/M - Fine to Medium	Peat: Fossiliferous root mat - decomposed fiber structure.
Fine gravel	1/4"-3/4" (pea to grape).			Dense	Stiff	RD - Red	F/C - Fine to Coarse	Note: e.g. logs, branches, roots, shells, black streaks, H2S odor.

SHALLOW SOIL SAMPLE FIELD LOG

GZA GeoEnvironmental, Inc. 655 Winding Brook Drive, Suite 402 Glastonbury, CT 06033 Phone: (860) 286-8900			PROJECT Project Name: <u>Commercial Foundry</u> Location: <u>326 South Street, New Britain, CT</u>				Date: <u>12/26/12</u> Page 1 of 1 File No. <u>43369.82</u> GZA Staff/Sampler: <u>BAG</u>	
Air Temperature (°F): <u>35°F</u> Weather Conditions: <u>Cloudy</u>			SAMPLING EQUIPMENT Sample Method/Device: _____ Grab Hand Auger Hand Core/Borer Dredge Other				OVA/OVM: <u>N/A</u> Calibration Standard: <u>100 ppm</u> Source lamp: <u>10.6 eV</u> Instrument Reading (start): <u>93.6</u> Instrument Reading (finish): <u>99.7</u>	
Sample ID	Time	Sample Depth (FT)	OVM Reading (PPM)	Odor	Ground Cover (asphlt/cnc.gras)	Cover Thickness (in)	Sample Description	
Ext-1	1045	0-1'	ND	None	Gravel	0-4"	0-4" Black GRAVEL and ORGANIC MATERIAL, some Sand and Silt, red-brown, fine to medium Sand and Silt, little Gravel	
Ext-1	1055	1-2'	ND	None	--	--	4-12"; Red-brown, fine to medium SAND and SILT, little Gravel, red-brown, fine to medium Sand and SILT, little Gravel	
Ext-2	1100	0-1'	ND	None	Gravel	0-4"	0-4": Black GRAVEL, some fine to medium Sand and Silt	
Ext-2	1105	1-2'	ND	None	--	--	4-12" Red-brown, fine to medium SAND and SILT, little Gravel, red-brown, fine to medium Sand and Silt, little Gravel	
Ext-3	1110	0-1'	ND	None	Gravel	0-4"	0-4": Black GRAVEL and ORGANIC MATERIAL, some Sand and Gravel	
Ext-3	1115	1-2'	ND	None	--	--	4-12": Red-brown, fine to medium SAND and SILT, little Gravel, red-brown, fine to medium Sand and Silt, little Gravel	
Ext-4	1118	0-1'	ND	None	Gravel	0-4"	0-4": GRAVEL, black Organic Material	
Ext-4	1120	1-2'	ND	None	--	--	4-12": Red-brown, fine to medium SAND and SILT, little Gravel, red-brown, fine to medium SAND and SILT, little Gravel	
Ext-5	1125	0-1'	ND	None	Gravel	0-4"	0-4": GRAVEL, black Organic Material	
Ext-5	1130	1-2'	ND	None	--	--	4-12": Brown, fine to medium SAND, little Silt and Gravel, brown, medium Sand, little Silt, little Gravel	
Catch Basin	1140	--	ND	None	--	--	Saturated black SEDIMENT and GRAVEL	
*Samples collected from 0.5-0.75' and 1.75-2.0'								
SOIL CONDITIONS				DENSITY		ABBREVIATIONS		ORGANIC MATERIALS
Fines (silts & clay)	Too fine to see.	TRACE (TR.)	0-10%	Sand	Silt/Clay	V - Very	F - Fine	Organic Silt: Dark gray to black, light weight, often H2S odor.
Fine sand.	Finest visible particles.	LITTLE (L.)	10-20%	V. Loose	V. Soft	GR - Gray	M - Medium	Humus: Decomposed root/twig/leaf litter - forest areas.
Med. Sand	1/64"-1/16" (granular sugar).	SOME (S.)	20-35%	Loose	Soft	BN - Brown	C - Coarse	Root Mat: Living root fiber structures, found in marshes.
C. Sand	1/6"-1/4" (rock salt).	AND	35-50%	M. Dense	M. Stiff	YEL - Yellow	F/M - Fine to Medium	Peat: Fossiliferous root mat - decomposed fiber structure.
Fine gravel	1/4"-3/4" (pea to grape).			Dense	Stiff	RD - Red	F/C - Fine to Coarse	Note: e.g. logs, branches, roots, shells, black streaks, H2S odor.

SHALLOW SOIL SAMPLE FIELD LOG

GZA GeoEnvironmental, Inc. 655 Winding Brook Drive, Suite 402 Glastonbury, CT 06033 Phone: (860) 286-8900				PROJECT Project Name: <u>Commercial Foundry</u> Location: <u>326 South Street, New Britain, CT</u>				Date: <u>12/28/12</u> Page 1 of 1 File No. <u>43369.82</u> GZA Staff/Sampler: <u>JP/SD</u>	
				Air Temperature (°F): <u>30s</u> Weather Conditions: <u>Sun</u>				SAMPLING EQUIPMENT Sample Method/Device: <u>GeoProbe Hand Sampler</u> Grab Hand Auger Hand Core/Borer Dredge Other	
Sample ID	Time	Sample Depth (FT)	OVM Reading (PPM)	Odor	Ground Cover (asphlt/cnc.gras)	Cover Thickness (in)	Sample Description		
A3-S6 (0-2)	1330	0-2'	NM	Machine oil top 3"	Concrete	6	18" recovery, Moist, red-brown SILT, some fine Sand, trace Gravel, no staining, see odor		
SOIL CONDITIONS				DENSITY		ABBREVIATIONS		ORGANIC MATERIALS	
Fines (silts & clay)	Too fine to see.	TRACE (TR.)	0-10%	Sand	Silt/Clay	V - Very	F - Fine	Organic Silt: Dark gray to black, light weight, often H2S odor.	
Fine sand.	Finest visible particles.	LITTLE (L.)	10-20%	V. Loose	V. Soft	GR - Gray	M - Medium	Humus: Decomposed root/twig/leaf litter - forest areas.	
Med. Sand	1/64"-1/16" (granular sugar).	SOME (S.)	20-35%	Loose	Soft	BN - Brown	C - Coarse	Root Mat: Living root fiber structures, found in marshes.	
C. Sand	1/6"-1/4" (rock salt).	AND	35-50%	M. Dense	M. Stiff	YEL - Yellow	F/M - Fine to Medium	Peat: Fossiliferous root mat - decomposed fiber structure.	
Fine gravel	1/4"-3/4" (pea to grape).			Dense	Stiff	RD - Red	F/C - Fine to Coarse	Note: e.g. logs, branches, roots, shells, black streaks, H2S odor.	

TEST PIT FIELD LOG

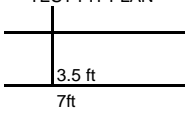


GZA GEOENVIRONMENTAL, INC. 655 WINDING BROOK DRIVE, SUITE 402 GLASTONBURY, CT GEOTECHNICAL CONSULTANTS	COMMERCIAL FOUNDRY 326 SOUTH STREET NEW BRITIAN, CT	TEST PIT NO.: TP-1 FILE NO.: 43369.82 DATE: 1/10/2013
--	--	--

GZA ENGINEER: BAG WEATHER: Cloudy, 40°F	CONTRACTOR: AES OPERATOR: Rocco MAKE: John Deere CAPACITY: cu. yd.	EXCAVATION EQUIPMENT MODEL: 35S REACH: GROUND ELEV.: TIME STARTED: 0815 TIME COMPLETED: 0915
--	---	---

DEPTH	SOIL DESCRIPTION	EXCAV. EFFORT	BOULDER COUNT QTY. CLASS	REMARK NO.
-0.5-	ORGANIC MATERIAL (Grass)	E	0	
-1-	Fine to coarse GRAVEL (Base Layer)	E	0	
-1.5-	Dark, red-brown, fine to medium SAND and SILT, some fine to coarse Gravel	E	0	
-2-		E	0	
-2.5-		E	0	
-3-		E	0	
-3.5-		E	0	
-4-	Red Clay	E	0	
-4.5-	End of Exploration			
-5-				
-5.5-				
-6-				
-6.5-				
-7-				

REMARKS:

No evidence of any piping or trenches.

TEST PIT PLAN		LEGEND:				EXCAVATION EFFORT	
		BOULDER	COUNT	PROPORTIONS USED		E	EASY
3.5 ft		SIZE RANGE	LETTER			M	MODERATE
7ft		CLASSIFICATION	DESIGNATION	TRACE (TR)	0-10%	D	DIFFICULT
NORTH		6"-18"	A	LITTLE (LI)	10-20%		
VOLUME= 3.6 cu. yd.		18"-36"	B	SOME (SO)	20-35%		
		36" OR LARGER	C	AND	35-50%		
							OBSERVED GROUNDWATER LEVEL

GEOPROBE LOG



GZA
GeoEnvironmental, Inc.
Engineers and Scientists

Commercial Foundry
326 South Street
New Britain, Connecticut

EXPLORATION NO.: A12-S-1
SHEET: 1 of 1
PROJECT NO: 43369.82
REVIEWED BY:

Logged By: S. Pavlesich
Drilling Co.: Zebra
Foreman: Luke

Geoprobe Location: See Plan
Ground Surface Elev. (ft.):
Final Geoprobe Depth (ft.): 8
Date Start - Finish: 12/26/2013 - 12/26/2013

H. Datum:
V. Datum:

Type of Rig: GeoProbe
Rig Model: 6620DT
Drilling Method: Direct Push

Sampler Type: MC
Sampler O.D. (in.): 2.0
Sampler Length (in.): 48
Rock Core Size:

Groundwater Depth (ft.)

Date	Time	Water Depth	Stab. Time

Depth (ft)	Sample					Sample Description Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)	Equipment Installed
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	PID* (ppm)						
5	S-1	0-4	48	36	ND	Top 18": Dark brown-red, fine to medium SAND, little Silt, trace fine to coarse Gravel Bottom 18": Dark brown-red, fine SAND and SILT, no odor or stain	1	SAND	4	No Equipment Installed	
						2					
	S-2	4-8	48	48	ND	Dark brown-red, fine SAND and SILT, no odor or stain	2	SAND AND SILT	8		
						2					
10						End of exploration at 8 feet.					
15											
20											
25											
30											

REMARKS

1 - Soil samples screened with a 10.6 eV MiniRAE photoionization detector (PID). PID values represent meter response in parts per million (ppm) relative to benzene in air and above background readings.
A *** indicates a sample sent to a laboratory for additional analyses or screening. ND=None Detected above background.
2 - Samples collected for laboratory analysis from 2.5-2.75, 4.75-5.0 and 5.75 and 6.0 feet below grade.

Stratification lines represent approximate boundaries between soil types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

A12-S-1

GEOPROBE LOG



GZA
GeoEnvironmental, Inc.
Engineers and Scientists

Commercial Foundry
 326 South Street
 New Britain, Connecticut

EXPLORATION NO.: A12-S-2
SHEET: 1 of 1
PROJECT NO: 43369.82
REVIEWED BY:

Logged By: S. Pavlesich
Drilling Co.: Zebra
Foreman: Luke

Geoprobe Location: See Plan
Ground Surface Elev. (ft.):
Final Geoprobe Depth (ft.): 8
Date Start - Finish: 12/26/2013 - 12/26/2013

H. Datum:
V. Datum:

Type of Rig: GeoProbe
Rig Model: 6620DT
Drilling Method: Direct Push

Sampler Type: MC
Sampler O.D. (in.): 2.0
Sampler Length (in.): 48
Rock Core Size:

Groundwater Depth (ft.)

Date	Time	Water Depth	Stab. Time

Depth (ft)	Sample					Sample Description Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)	Equipment Installed
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	PID* (ppm)						
5	S-1	0-4	48	30	ND	Top 26": Dark brown-red, fine to medium SAND, little Silt Bottom 4": Dark brown-red, fine SAND and SILT, no odor or stain	1				No Equipment Installed
							2		SAND	4	
	S-2	4-8	48	48	ND	Top 36": Dark brown-red, fine SAND and SILT Bottom 12": Dark brown-red, fine to medium SAND, little Silt, wet, no stain, slight odor 6 to 8 feet	2				
							2		SAND AND SILT	8	
10						End of exploration at 8 feet.					
15											
20											
25											
30											

REMARKS

1 - Soil samples screened with a 10.6 eV MiniRAE photoionization detector (PID). PID values represent meter response in parts per million (ppm) relative to benzene in air and above background readings.
 A *** indicates a sample sent to a laboratory for additional analyses or screening. ND=None Detected above background.
 2 - Samples collected for laboratory analysis from 2.5-2.75, 4.75-5.0 and 5.75 and 6.0 feet below grade.

Stratification lines represent approximate boundaries between soil types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

A12-S-2

GEOPROBE LOG



GZA
GeoEnvironmental, Inc.
Engineers and Scientists

Commercial Foundry
326 South Street
New Britain, Connecticut

EXPLORATION NO.: A12-S-3
SHEET: 1 of 1
PROJECT NO: 43369.82
REVIEWED BY:

Logged By: S. Pavlesich
Drilling Co.: Zebra
Foreman: Luke

Geoprobe Location: See Plan
Ground Surface Elev. (ft.):
Final Geoprobe Depth (ft.): 8
Date Start - Finish: 12/26/2013 - 12/26/2013

H. Datum:
V. Datum:

Type of Rig: GeoProbe
Rig Model: 6620DT
Drilling Method: Direct Push

Sampler Type: MC
Sampler O.D. (in.): 2.0
Sampler Length (in.): 48
Rock Core Size:

Groundwater Depth (ft.)

Date	Time	Water Depth	Stab. Time

Depth (ft)	Sample					Sample Description Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)	Equipment Installed
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	PID* (ppm)						
5	S-1	0-4	48	21	ND	Dark brown-red, fine SAND, some Silt, trace fine to coarse Gravel, no odor or stain	1				No Equipment Installed
							2		SAND	4	
	S-2	4-8	48	48	ND	Top 36": Dark brown-red, fine SAND and SILT, no stain, slight odor at 6 feet Bottom 12": Dark brown-red CLAY, no odor or stain	2				
							2		SAND AND SILT	8	
10						End of exploration at 8 feet.					
15											
20											
25											
30											

REMARKS

1 - Soil samples screened with a 10.6 eV MiniRAE photoionization detector (PID). PID values represent meter response in parts per million (ppm) relative to benzene in air and above background readings.
A *** indicates a sample sent to a laboratory for additional analyses or screening. ND=None Detected above background.
2 - Samples collected for laboratory analysis from 2.5-2.75, 4.75-5.0 and 5.75 and 6.0 feet below grade.

Stratification lines represent approximate boundaries between soil types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

A12-S-3

GEOPROBE LOG



GZA
GeoEnvironmental, Inc.
Engineers and Scientists

Commercial Foundry
326 South Street
New Britain, Connecticut

EXPLORATION NO.: A12-S-4
SHEET: 1 of 1
PROJECT NO: 43369.82
REVIEWED BY:

Logged By: S. Pavlesich
Drilling Co.: Zebra
Foreman: Luke

Geoprobe Location: See Plan
Ground Surface Elev. (ft.):
Final Geoprobe Depth (ft.): 8
Date Start - Finish: 12/26/2013 - 12/26/2013

H. Datum:
V. Datum:

Type of Rig: GeoProbe
Rig Model: 6620DT
Drilling Method: Direct Push

Sampler Type: MC
Sampler O.D. (in.): 2.0
Sampler Length (in.): 48
Rock Core Size:

Groundwater Depth (ft.)

Date	Time	Water Depth	Stab. Time

Depth (ft)	Sample					Sample Description Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)	Equipment Installed
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	PID* (ppm)						
5	S-1	0-4	48	26	ND	Top 22": Dark brown-red, fine to medium SAND, little Silt, trace fine to coarse Gravel, no odor or stain	1		SAND	8	No Equipment Installed
						Bottom 4": Dark brown-red, fine SAND, some Silt, no odor or stain	2				
	S-2	4-8	48	48	ND	Dark brown-red, fine SAND, some Silt, wet, no stain or odor	2				
							2				
10						End of exploration at 8 feet.					
15											
20											
25											
30											

REMARKS

1 - Soil samples screened with a 10.6 eV MiniRAE photoionization detector (PID). PID values represent meter response in parts per million (ppm) relative to benzene in air and above background readings.
A *** indicates a sample sent to a laboratory for additional analyses or screening. ND=None Detected above background.
2 - Samples collected for laboratory analysis from 2.5-2.75, 4.75-5.0 and 5.75 and 6.0 feet below grade.

Stratification lines represent approximate boundaries between soil types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

A12-S-4

GEOPROBE LOG



GZA
GeoEnvironmental, Inc.
Engineers and Scientists

Commercial Foundry
326 South Street
New Britain, Connecticut

EXPLORATION NO.: A12-S-5
SHEET: 1 of 1
PROJECT NO: 43369.82
REVIEWED BY:

Logged By: S. Pavlesich
Drilling Co.: Zebra
Foreman: Luke

Geoprobe Location: See Plan
Ground Surface Elev. (ft.):
Final Geoprobe Depth (ft.): 8
Date Start - Finish: 12/26/2013 - 12/26/2013

H. Datum:
V. Datum:

Type of Rig: GeoProbe
Rig Model: 6620DT
Drilling Method: Direct Push

Sampler Type: MC
Sampler O.D. (in.): 2.0
Sampler Length (in.): 48
Rock Core Size:

Groundwater Depth (ft.)

Date	Time	Water Depth	Stab. Time

Depth (ft)	Sample					Sample Description Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)	Equipment Installed
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	PID* (ppm)						
5	S-1	0-4	48	30	ND	Top 15": Dark brown-red, fine to medium SAND, some Silt, trace fine to coarse Gravel Bottom 13": Dark brown-red, fine SAND and SILT, no odor or stain	1		SAND	2	No Equipment Installed
							2				
	S-2	4-8	48	48	ND	Dark brown-red, fine SAND, some Silt, wet, no odor or stain	2		SAND AND SILT	6	
							2		SAND	8	
10						End of exploration at 8 feet.					
15											
20											
25											
30											

REMARKS

1 - Soil samples screened with a 10.6 eV MiniRAE photoionization detector (PID). PID values represent meter response in parts per million (ppm) relative to benzene in air and above background readings.
A *** indicates a sample sent to a laboratory for additional analyses or screening. ND=None Detected above background.
2 - Samples collected for laboratory analysis from 2.5-2.75, 4.75-5.0 and 5.75 and 6.0 feet below grade.

Stratification lines represent approximate boundaries between soil types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

A12-S-5

GEOPROBE LOG



GZA
GeoEnvironmental, Inc.
Engineers and Scientists

Commercial Foundry
326 South Street
New Britain, Connecticut

EXPLORATION NO.: A12-S-6
SHEET: 1 of 1
PROJECT NO: 43369.82
REVIEWED BY:

Logged By: S. Pavlesich
Drilling Co.: Zebra
Foreman: Luke

Geoprobe Location: See Plan
Ground Surface Elev. (ft.):
Final Geoprobe Depth (ft.): 8
Date Start - Finish: 12/26/2013 - 12/26/2013

H. Datum:
V. Datum:

Type of Rig: GeoProbe
Rig Model: 6620DT
Drilling Method: Direct Push

Sampler Type: MC
Sampler O.D. (in.): 2.0
Sampler Length (in.): 48
Rock Core Size:

Groundwater Depth (ft.)

Date	Time	Water Depth	Stab. Time

Depth (ft)	Sample					Sample Description Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)	Equipment Installed
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	PID* (ppm)						
5	S-1	0-4	48	26	ND	Top 20": Dark brown-red, fine to coarse SAND, little Silt, trace fine to coarse Gravel, no odor or stain	1		SAND	2	No Equipment Installed
						Bottom 6": Dark brown-red, fine SAND and SILT, no odor or stain	2				
	S-2	4-8	48	48	ND	Top 24": Dark brown-red, fine SAND and SILT, tight, no odor or stain	2		SAND AND SILT	6	
						Bottom 24": Dark brown-red CLAY, no odor or stain	2		CLAY	8	
10						End of exploration at 8 feet.					
15											
20											
25											
30											

REMARKS

1 - Soil samples screened with a 10.6 eV MiniRAE photoionization detector (PID). PID values represent meter response in parts per million (ppm) relative to benzene in air and above background readings.
A *** indicates a sample sent to a laboratory for additional analyses or screening. ND=None Detected above background.
2 - Samples collected for laboratory analysis from 2.5-2.75, 4.75-5.0 and 5.75 and 6.0 feet below grade.

Stratification lines represent approximate boundaries between soil types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

A12-S-6

GEOPROBE LOG



GZA
GeoEnvironmental, Inc.
Engineers and Scientists

Commercial Foundry
326 South Street
New Britain, Connecticut

EXPLORATION NO.: A14-S-18
SHEET: 1 of 1
PROJECT NO: 43369.82
REVIEWED BY:

Logged By: S. Pavlesich
Drilling Co.: Zebra
Foreman: Luke

Geoprobe Location: See Plan
Ground Surface Elev. (ft.):
Final Geoprobe Depth (ft.): 8
Date Start - Finish: 12/26/2013 - 12/26/2013

H. Datum:
V. Datum:

Type of Rig: GeoProbe
Rig Model: 6620DT
Drilling Method: Direct Push

Sampler Type: MC
Sampler O.D. (in.): 2.0
Sampler Length (in.): 48
Rock Core Size:

Groundwater Depth (ft.)

Date	Time	Water Depth	Stab. Time

Depth (ft)	Sample					Sample Description Modified Burmister	Remark	Elev. (ft.) Stratum Description	Depth (ft.)	Equipment Installed
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	PID* (ppm)					
5	S-1	0-4	48	12	ND	Dark-brown to red, fine to medium SAND, little Silt, trace fine to coarse Gravel. No odor or stain.	1	SAND	4	No Equipment Installed
	S-2	4-8	48	36	ND	Top 27": Dark-brown to red, fine SAND and SILT Bottom 9": Dark-brown to red CLAY. No odor or stain	2			
10						End of exploration at 8 feet.				
15										
20										
25										
30										

REMARKS

1 - Soil samples screened with a 10.6 eV MiniRAE photoionization detector (PID). PID values represent meter response in parts per million (ppm) relative to benzene in air and above background readings.
A "" indicates a sample sent to a laboratory for additional analyses or screening. ND=None Detected above background.
2 - Samples collected for laboratory analysis from 4.0 to 4.25' below grade.

Stratification lines represent approximate boundaries between soil types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

A14-S-18

GEOPROBE LOG



GZA
GeoEnvironmental, Inc.
Engineers and Scientists

Commercial Foundry
 326 South Street
 New Britain, Connecticut

EXPLORATION NO.: A14-S-19
SHEET: 1 of 1
PROJECT NO: 43369.82
REVIEWED BY:

Logged By: S. Pavlesich
Drilling Co.: Zebra
Foreman: Luke

Geoprobe Location: See Plan
Ground Surface Elev. (ft.):
Final Geoprobe Depth (ft.): 8
Date Start - Finish: 12/26/2013 - 12/26/2013

H. Datum:
V. Datum:

Type of Rig: GeoProbe
Rig Model: 6620DT
Drilling Method: Direct Push

Sampler Type: MC
Sampler O.D. (in.): 2.0
Sampler Length (in.): 48
Rock Core Size:

Groundwater Depth (ft.)

Date	Time	Water Depth	Stab. Time

Depth (ft)	Sample					Sample Description Modified Burmister	Remark	Elev. (ft.) Stratum Description	Depth (ft.)	Equipment Installed
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	PID* (ppm)					
5	S-1	0-4	48	6	ND	Dark-brown to red, fine to coarse SAND, little Silt, little fine to coarse Gravel. No odor or stain.	1	SAND	4	No Equipment Installed
	S-2	4-8	48	48	ND	Dark-brown to red, fine SAND and SILT, trace fine to coarse Gravel. No odor or stain.	2			
10						End of exploration at 8 feet.			8	
15										
20										
25										
30										

REMARKS

1 - Soil samples screened with a 10.6 eV MiniRAE photoionization detector (PID). PID values represent meter response in parts per million (ppm) relative to benzene in air and above background readings.
 A "" indicates a sample sent to a laboratory for additional analyses or screening. ND=None Detected above background.
 2 - Samples collected for laboratory analysis from 4.0-4.25' below grade.

Stratification lines represent approximate boundaries between soil types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

A14-S-19

GEOPROBE LOG



GZA
GeoEnvironmental, Inc.
Engineers and Scientists

Commercial Foundry
 326 South Street
 New Britain, Connecticut

EXPLORATION NO.: A14-S-20
SHEET: 1 of 1
PROJECT NO: 43369.82
REVIEWED BY:

Logged By: S. Pavlesich
Drilling Co.: Zebra
Foreman: Luke

Geoprobe Location: See Plan
Ground Surface Elev. (ft.):
Final Geoprobe Depth (ft.): 8
Date Start - Finish: 12/26/2013 - 12/26/2013

H. Datum:
V. Datum:

Type of Rig: GeoProbe
Rig Model: 6620DT
Drilling Method: Direct Push

Sampler Type: MC
Sampler O.D. (in.): 2.0
Sampler Length (in.): 48
Rock Core Size:

Groundwater Depth (ft.)

Date	Time	Water Depth	Stab. Time

Depth (ft)	Sample					Sample Description Modified Burmister	Remark	Elev. (ft.) Stratum Description	Depth (ft.)	Equipment Installed
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	PID* (ppm)					
5	S-1	0-4	48	18	ND	Core Dark-brown to red, fine to coarse SAND, little Silt, trace fine to coarse Gravel. No odor or stain.	1	SAND	4	No Equipment Installed
	S-2	4-8	48	36	ND	Dark-brown to red, fine SAND and SILT. No odor or stain. Wet.	2			
10						End of exploration at 8 feet.			8	
15										
20										
25										
30										

REMARKS

1 - Soil samples screened with a 10.6 eV MiniRAE photoionization detector (PID). PID values represent meter response in parts per million (ppm) relative to benzene in air and above background readings.
 A "" indicates a sample sent to a laboratory for additional analyses or screening. ND=None Detected above background.
 2 - Samples collected for laboratory analysis from 4.0-4.25' below grade.

Stratification lines represent approximate boundaries between soil types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

A14-S-20

GEOPROBE LOG



GZA
GeoEnvironmental, Inc.
Engineers and Scientists

COMMERCIAL FOUNDRY
 326 South Street
 New Britain, CT

EXPLORATION NO.: A14-S-22
SHEET: 1 of 1
PROJECT NO: 05.0043369.83
REVIEWED BY:

Logged By: B. Graham
Drilling Co.: Zebra Drilling
Foreman: Eric Pope

Geoprobe Location: See Plan
Ground Surface Elev. (ft.):
Final Geoprobe Depth (ft.): 4
Date Start - Finish: 7/2/2013 - 7/2/2013

H. Datum:
V. Datum:

Type of Rig: GeoProbe
Rig Model: 8 M
Drilling Method: Direct Push

Sampler Type: Macro Core
Sampler O.D. (in.): 2.0
Sampler Length (in.): 36
Rock Core Size:

Groundwater Depth (ft.)

Date	Time	Water Depth	Stab. Time

Depth (ft)	Sample					Sample Description Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	PID (ppm)					
	S-1	0-2	24	16	ND	S-1: 0-10": Brown, medium SAND, trace Silt 10-16": Brown, fine SAND, some Silt, trace fine to coarse Gravel	1 2		FILL	
	S-2	2-4	24	24	ND	S-2: Brown, fine SAND, some Silt, little fine to coarse Gravel				4
5						End of exploration at 4 feet.				
10										
15										
20										
25										
30										

REMARKS

1 - Soil samples screened with a 10.6 eV MiniRAE photoionization detector (PID). PID values represent meter response in parts per million (ppm) relative to benzene in air and above background readings. ND=None Detected above background.
 2 - Collected samples from potential laboratory analysis from 0-0.25, 0.25-0.5', 0.5-0.75', 0.75-1.0', 1.75-2', 2.75-3', 3.75-4' below grade.

Stratification lines represent approximate boundaries between soil types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

A14-S-22

GEOPROBE LOG



GZA
GeoEnvironmental, Inc.
Engineers and Scientists

COMMERCIAL FOUNDRY
 326 South Street
 New Britain, CT

EXPLORATION NO.: A-14-S-22
SHEET: 1 of 1
PROJECT NO: 05.0043369.83
REVIEWED BY:

Logged By: B. Graham
Drilling Co.: Zebra Drilling
Foreman: Eric Pope

Geoprobe Location: See Plan
Ground Surface Elev. (ft.):
Final Geoprobe Depth (ft.): 4
Date Start - Finish: 7/2/2013 - 7/2/2013

H. Datum:
V. Datum:

Type of Rig:
Rig Model:
Drilling Method:

Sampler Type: Macro Core
Sampler O.D. (in.): 2.0
Sampler Length (in.): 36
Rock Core Size:

Groundwater Depth (ft.)

Date	Time	Water Depth	Stab. Time

Depth (ft)	Sample					Sample Description Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	PID (ppm)					
	S-1	0-2	24	16	ND	S-1: 0-10": Brown, medium SAND, trace Silt 10-16": Brown, fine SAND, some Silt, trace fine to coarse Gravel	1			
	S-2	2-4	24	24	ND	S-2: Brown, fine SAND, some Silt, little fine to coarse Gravel	2		FILL	2
5						End of exploration at 4 feet.				4
10										
15										
20										
25										
30										

REMARKS

1 - Soil samples screened with a 10.6 eV MiniRAE photoionization detector (PID). PID values represent meter response in parts per million (ppm) relative to benzene in air and above background readings. A "" indicates a sample sent to a laboratory for additional analyses or screening. ND=None Detected above background.
 2 - Collected samples from potential laboratory analysis from 0-0.25, 0.25-0.5', 0.5-0.75', 0.75-1.0', 1.75-2', 2.75-3', 3.75-4' below grade.

Stratification lines represent approximate boundaries between soil types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

A-14-S-22

GEOPROBE LOG



GZA
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COMMERCIAL FOUNDRY
 326 South Street
 New Britain, CT

EXPLORATION NO.: A14-S-23
SHEET: 1 of 1
PROJECT NO: 05.0043369.83
REVIEWED BY:

Logged By: B. Graham
Drilling Co.: Zebra Drilling
Foreman: Eric Pope

Geoprobe Location: See Plan
Ground Surface Elev. (ft.):
Final Geoprobe Depth (ft.): 4
Date Start - Finish: 7/2/2013 - 7/2/2013

H. Datum:
V. Datum:

Type of Rig: GeoProbe
Rig Model: 8 M
Drilling Method: Direct Push

Sampler Type: Macro Core
Sampler O.D. (in.): 2.0
Sampler Length (in.): 36
Rock Core Size:

Groundwater Depth (ft.)

Date	Time	Water Depth	Stab. Time

Depth (ft)	Sample					Sample Description Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	PID (ppm)					
	S-1	0-2	24	24	ND	S-1: 0-8": Medium SAND, trace Silt 8-24": Fine brown SAND, some Silt, trace fine to coarse Gravel, Asphalt (14-15")	1 2			
	S-2	2-4	24	24	ND	S-2: Fine to coarse, brown SAND, some Silt, trace fine to coarse Gravel			FILL	4
5						End of exploration at 4 feet.				
10										
15										
20										
25										
30										

REMARKS

1 - Soil samples screened with a 10.6 eV MiniRAE photoionization detector (PID). PID values represent meter response in parts per million (ppm) relative to benzene in air and above background readings. ND=None Detected above background.
 2 - Collected samples from potential laboratory analysis from 0-0.25, 0.25-0.5', 0.5-0.75', 0.75-1.0', 1.75-2', 2.75-3', 3.75-4' below grade.

Stratification lines represent approximate boundaries between soil types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

A14-S-23

GEOPROBE LOG



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COMMERCIAL FOUNDRY
 326 South Street
 New Britain, CT

EXPLORATION NO.: A-14-S-23
SHEET: 1 of 1
PROJECT NO: 05.0043369.83
REVIEWED BY:

Logged By: B. Graham
Drilling Co.: Zebra Drilling
Foreman: Eric Pope

Geoprobe Location: See Plan
Ground Surface Elev. (ft.):
Final Geoprobe Depth (ft.): 4
Date Start - Finish: 7/2/2013 - 7/2/2013

H. Datum:
V. Datum:

Type of Rig:
Rig Model:
Drilling Method:

Sampler Type: Macro Core
Sampler O.D. (in.): 2.0
Sampler Length (in.): 36
Rock Core Size:

Groundwater Depth (ft.)

Date	Time	Water Depth	Stab. Time

Depth (ft)	Sample					Sample Description Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	PID (ppm)					
	S-1	0-2	24	24	ND	S-1: 0-8": Medium SAND, trace Silt	1			
						8-24": Fine brown SAND, some Silt, trace fine to coarse Gravel, Asphalt (14-15")	2		FILL	2
	S-2	2-4	24	24	ND	S-2: Fine to coarse, brown SAND, some Silt, trace fine to coarse Gravel				4
5						End of exploration at 4 feet.				
10										
15										
20										
25										
30										

REMARKS

1 - Soil samples screened with a 10.6 eV MiniRAE photoionization detector (PID). PID values represent meter response in parts per million (ppm) relative to benzene in air and above background readings. A "*" indicates a sample sent to a laboratory for additional analyses or screening. ND=None Detected above background.

2 - Collected samples from potential laboratory analysis from 0-0.25, 0.25-0.5', 0.5-0.75', 0.75-1.0', 1.75-2', 2.75-3', 3.75-4' below grade.

Stratification lines represent approximate boundaries between soil types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

A-14-S-23

GEOPROBE LOG



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COMMERCIAL FOUNDRY
 326 South Street
 New Britain, CT

EXPLORATION NO.: A14-S-24
SHEET: 1 of 1
PROJECT NO: 05.0043369.83
REVIEWED BY:

Logged By: B. Graham
Drilling Co.: Zebra Drilling
Foreman: Eric Pope

Geoprobe Location: See Plan
Ground Surface Elev. (ft.):
Final Geoprobe Depth (ft.): 4
Date Start - Finish: 7/2/2013 - 7/2/2013

H. Datum:
V. Datum:

Type of Rig: GeoProbe
Rig Model: 8 M
Drilling Method: Direct Push

Sampler Type: Macro Core
Sampler O.D. (in.): 2.0
Sampler Length (in.): 36
Rock Core Size:

Groundwater Depth (ft.)

Date	Time	Water Depth	Stab. Time

Depth (ft)	Sample					Sample Description Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	PID (ppm)					
	S-1	0-2	24	18	ND	S-1: 0-10": Brown, medium SAND, trace Silt 10-18": Brown, fine SAND, some Silt, little fine to coarse Gravel	1 2		FILL	
	S-2	2-4	24	24	ND	S-2: Brown, fine SAND, some Silt, trace fine to coarse Gravel				4
5						End of exploration at 4 feet.				
10										
15										
20										
25										
30										

REMARKS

1 - Soil samples screened with a 10.6 eV MiniRAE photoionization detector (PID). PID values represent meter response in parts per million (ppm) relative to benzene in air and above background readings. ND=None Detected above background.
 2 - Collected samples from potential laboratory analysis from 0-0.25, 0.25-0.5', 0.5-0.75', 0.75-1.0', 1.75-2', 2.75-3', 3.75-4' below grade.

Stratification lines represent approximate boundaries between soil types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

A14-S-24

GEOPROBE LOG



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COMMERCIAL FOUNDRY
 326 South Street
 New Britain, CT

EXPLORATION NO.: A-14-S-24
SHEET: 1 of 1
PROJECT NO: 05.0043369.83
REVIEWED BY:

Logged By: B. Graham
Drilling Co.: Zebra Drilling
Foreman: Eric Pope

Geoprobe Location: See Plan
Ground Surface Elev. (ft.):
Final Geoprobe Depth (ft.): 4
Date Start - Finish: 7/2/2013 - 7/2/2013

H. Datum:
V. Datum:

Type of Rig:
Rig Model:
Drilling Method:

Sampler Type: Macro Core
Sampler O.D. (in.): 2.0
Sampler Length (in.): 36
Rock Core Size:

Groundwater Depth (ft.)

Date	Time	Water Depth	Stab. Time

Depth (ft)	Sample					Sample Description Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	PID (ppm)					
	S-1	0-2	24	18	ND	S-1: 0-10": Brown, medium SAND, trace Silt 10-18": Brown, fine SAND, some Silt, little fine to coarse Gravel	1			
	S-2	2-4	24	24	ND	S-2: Brown, fine SAND, some Silt, trace fine to coarse Gravel	2		FILL	2
5						End of exploration at 4 feet.				4
10										
15										
20										
25										
30										

REMARKS

1 - Soil samples screened with a 10.6 eV MiniRAE photoionization detector (PID). PID values represent meter response in parts per million (ppm) relative to benzene in air and above background readings. A "" indicates a sample sent to a laboratory for additional analyses or screening. ND=None Detected above background.

2 - Collected samples from potential laboratory analysis from 0-0.25, 0.25-0.5', 0.5-0.75', 0.75-1.0', 1.75-2', 2.75-3', 3.75-4' below grade.

Stratification lines represent approximate boundaries between soil types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

A-14-S-24

GEOPROBE LOG



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COMMERCIAL FOUNDRY
 326 South Street
 New Britain, CT

EXPLORATION NO.: A14-S-25
SHEET: 1 of 1
PROJECT NO: 05.0043369.83
REVIEWED BY:

Logged By: B. Graham
Drilling Co.: Zebra Drilling
Foreman: Eric Pope

Geoprobe Location: See Plan
Ground Surface Elev. (ft.):
Final Geoprobe Depth (ft.): 4
Date Start - Finish: 7/2/2013 - 7/2/2013

H. Datum:
V. Datum:

Type of Rig: GeoProbe
Rig Model: 8 M
Drilling Method: Direct Push

Sampler Type: Macro Core
Sampler O.D. (in.): 2.0
Sampler Length (in.): 36
Rock Core Size:

Groundwater Depth (ft.)

Date	Time	Water Depth	Stab. Time

Depth (ft)	Sample					Sample Description Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	PID (ppm)					
	S-1	0-2	24	18	ND	S-1: 0-10": Brown, medium SAND, trace Silt	1			
						10-18": Brown, fine SAND, some Silt, trace fine to coarse Gravel	2			
	S-2	2-4	24	24	ND	S-2: Brown, fine SAND, some Silt, trace fine to coarse Gravel			FILL	4
5						End of exploration at 4 feet.				
10										
15										
20										
25										
30										

REMARKS

1 - Soil samples screened with a 10.6 eV MiniRAE photoionization detector (PID). PID values represent meter response in parts per million (ppm) relative to benzene in air and above background readings. ND=None Detected above background.
 2 - Collected samples from potential laboratory analysis from 0-0.25, 0.25-0.5', 0.5-0.75', 0.75-1.0', 1.75-2', 2.75-3', 3.75-4' below grade.

Stratification lines represent approximate boundaries between soil types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

A14-S-25

GEOPROBE LOG



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COMMERCIAL FOUNDRY
 326 South Street
 New Britain, CT

EXPLORATION NO.: A-14-S-25
SHEET: 1 of 1
PROJECT NO: 05.0043369.83
REVIEWED BY:

Logged By: B. Graham
Drilling Co.: Zebra Drilling
Foreman: Eric Pope

Geoprobe Location: See Plan
Ground Surface Elev. (ft.):
Final Geoprobe Depth (ft.): 4
Date Start - Finish: 7/2/2013 - 7/2/2013

H. Datum:
V. Datum:

Type of Rig:
Rig Model:
Drilling Method:

Sampler Type: Macro Core
Sampler O.D. (in.): 2.0
Sampler Length (in.): 36
Rock Core Size:

Groundwater Depth (ft.)

Date	Time	Water Depth	Stab. Time

Depth (ft)	Sample					Sample Description Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	PID (ppm)					
	S-1	0-2	24	18	ND	S-1: 0-10": Brown, medium SAND, trace Silt 10-18": Brown, fine SAND, some Silt, trace fine to coarse Gravel	1			
	S-2	2-4	24	24	ND	S-2: Brown, fine SAND, some Silt, trace fine to coarse Gravel	2		FILL	2
5						End of exploration at 4 feet.				4
10										
15										
20										
25										
30										

REMARKS

1 - Soil samples screened with a 10.6 eV MiniRAE photoionization detector (PID). PID values represent meter response in parts per million (ppm) relative to benzene in air and above background readings. A "*" indicates a sample sent to a laboratory for additional analyses or screening. ND=None Detected above background.
 2 - Collected samples from potential laboratory analysis from 0-0.25, 0.25-0.5', 0.5-0.75', 0.75-1.0', 1.75-2', 2.75-3', 3.75-4' below grade.

Stratification lines represent approximate boundaries between soil types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

A-14-S-25

GEOPROBE LOG



GZA
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Engineers and Scientists

COMMERCIAL FOUNDRY
 326 South Street
 New Britain, CT

EXPLORATION NO.: A14-S-26
SHEET: 1 of 1
PROJECT NO: 05.0043369.83
REVIEWED BY:

Logged By: B. Graham
Drilling Co.: Zebra Drilling
Foreman: Eric Pope

Geoprobe Location: See Plan
Ground Surface Elev. (ft.):
Final Geoprobe Depth (ft.): 4
Date Start - Finish: 7/2/2013 - 7/2/2013

H. Datum:
V. Datum:

Type of Rig: GeoProbe
Rig Model: 8 M
Drilling Method: Direct Push

Sampler Type: Macro Core
Sampler O.D. (in.): 2.0
Sampler Length (in.): 36
Rock Core Size:

Groundwater Depth (ft.)

Date	Time	Water Depth	Stab. Time

Depth (ft)	Sample					Sample Description Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	PID (ppm)					
	S-1	0-2	24	20	ND	S-1: 0-10": Brown, medium SAND, little Silt 10-20": Brown, fine SAND and SILT, trace fine to coarse Gravel	1 2		FILL	4
	S-2	2-4	24	24	ND	S-2: Brown, fine SAND and SILT, trace fine to coarse Gravel				
5						End of exploration at 4 feet.				
10										
15										
20										
25										
30										

REMARKS

1 - Soil samples screened with a 10.6 eV MiniRAE photoionization detector (PID). PID values represent meter response in parts per million (ppm) relative to benzene in air and above background readings. ND=None Detected above background.
 2 - Collected samples from potential laboratory analysis from 0-0.25, 0.25-0.5', 0.5-0.75', 0.75-1.0', 1.75-2', 2.75-3', 3.75-4' below grade.

Stratification lines represent approximate boundaries between soil types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

A14-S-26

GEOPROBE LOG



GZA
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COMMERCIAL FOUNDRY
 326 South Street
 New Britain, CT

EXPLORATION NO.: A14-S-27
SHEET: 1 of 1
PROJECT NO: 05.0043369.83
REVIEWED BY:

Logged By: B. Graham
Drilling Co.: Zebra Drilling
Foreman: Eric Pope

Geoprobe Location: See Plan
Ground Surface Elev. (ft.):
Final Geoprobe Depth (ft.): 4
Date Start - Finish: 7/2/2013 - 7/2/2013

H. Datum:
V. Datum:

Type of Rig: GeoProbe
Rig Model: 8 M
Drilling Method: Direct Push

Sampler Type: Macro Core
Sampler O.D. (in.): 2.0
Sampler Length (in.): 36
Rock Core Size:

Groundwater Depth (ft.)

Date	Time	Water Depth	Stab. Time

Depth (ft)	Sample					Sample Description Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	PID (ppm)					
	S-1	0-2	24	22	ND	S-1: 0-8": Medium brown SAND, trace Silt 8-22": Brown, fine SAND, some Silt, little fine to coarse Gravel	1 2			
	S-2	2-4	24	24	ND	S-2: Brown, fine SAND and SILT, trace fine to coarse Gravel			FILL	4
5						End of exploration at 4 feet.				
10										
15										
20										
25										
30										

REMARKS

1 - Soil samples screened with a 10.6 eV MiniRAE photoionization detector (PID). PID values represent meter response in parts per million (ppm) relative to benzene in air and above background readings. ND=None Detected above background.
 2 - Collected samples from potential laboratory analysis from 0-0.25, 0.25-0.5', 0.5-0.75', 0.75-1.0', 1.75-2', 2.75-3', 3.75-4' below grade.

Stratification lines represent approximate boundaries between soil types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

A14-S-27

GEOPROBE LOG



GZA
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COMMERCIAL FOUNDRY
 326 South Street
 New Britain, CT

EXPLORATION NO.: Ext-6
SHEET: 1 of 1
PROJECT NO: 05.0043369.83
REVIEWED BY:

Logged By: B. Graham
Drilling Co.: Zebra Drilling
Foreman: Eric Pope

Geoprobe Location: See Plan
Ground Surface Elev. (ft.):
Final Geoprobe Depth (ft.): 4
Date Start - Finish: 7/2/2013 - 7/2/2013

H. Datum:
V. Datum:

Type of Rig: GeoProbe
Rig Model: 8 M
Drilling Method: Direct Push

Sampler Type: Macro Core
Sampler O.D. (in.): 2.0
Sampler Length (in.): 36
Rock Core Size:

Groundwater Depth (ft.)

Date	Time	Water Depth	Stab. Time

Depth (ft)	Sample					Sample Description Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	PID (ppm)					
	S-1	0-2	24	18	ND	S-1: 0-2": Organic TOPSOIL	1			
						2-16": Red-brown, fine to medium SAND, some Silt, some Gravel	2			
	S-2	2-4	24	24	ND	16-18": Red-brown, fine SAND, some Silt, some Gravel			SAND	4
						S-2: Red-brown, fine SAND, some Silt, some fine to coarse Gravel				
5						End of exploration at 4 feet.				
10										
15										
20										
25										
30										

REMARKS

1 - Soil samples screened with a 10.6 eV MiniRAE photoionization detector (PID). PID values represent meter response in parts per million (ppm) relative to benzene in air and above background readings. ND=None Detected above background.
 2 - Collected samples from potential laboratory analysis from 0-0.25, 0.25-0.5', 0.5-0.75', 0.75-1.0', 1.75-2', 2.75-3', 3.75-4' below grade.

Stratification lines represent approximate boundaries between soil types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Ext-6

GEOPROBE LOG



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COMMERCIAL FOUNDRY
 326 South Street
 New Britain, CT

EXPLORATION NO.: Ext-7
SHEET: 1 of 1
PROJECT NO: 05.0043369.83
REVIEWED BY:

Logged By: B. Graham
Drilling Co.: Zebra Drilling
Foreman: Eric Pope

Geoprobe Location: See Plan
Ground Surface Elev. (ft.):
Final Geoprobe Depth (ft.): 4
Date Start - Finish: 7/2/2013 - 7/2/2013

H. Datum:
V. Datum:

Type of Rig: GeoProbe
Rig Model: 8 M
Drilling Method: Direct Push

Sampler Type: Macro Core
Sampler O.D. (in.): 2.0
Sampler Length (in.): 36
Rock Core Size:

Groundwater Depth (ft.)

Date	Time	Water Depth	Stab. Time

Depth (ft)	Sample					Sample Description Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	PID (ppm)					
	S-1	0-2	24	18	ND	S-1: 0-2": TOPSOIL/Organic	1			
						2-18": Red-brown, fine to medium SAND, some Silt, some fine to coarse Gravel	2			
	S-2	2-4	24	24	ND	S-2: Red-brown, fine SAND, some Silt, some fine to coarse Gravel			SAND	4
5						End of exploration at 4 feet.				
10										
15										
20										
25										
30										

REMARKS

1 - Soil samples screened with a 10.6 eV MiniRAE photoionization detector (PID). PID values represent meter response in parts per million (ppm) relative to benzene in air and above background readings. ND=None Detected above background.
 2 - Collected samples from potential laboratory analysis from 0-0.25, 0.25-0.5', 0.5-0.75', 0.75-1.0', 1.75-2', 2.75-3', 3.75-4' below grade.

Stratification lines represent approximate boundaries between soil types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Ext-7

GEOPROBE LOG



GZA
GeoEnvironmental, Inc.
Engineers and Scientists

COMMERCIAL FOUNDRY
 326 South Street
 New Britain, CT

EXPLORATION NO.: Ext-8
SHEET: 1 of 1
PROJECT NO: 05.0043369.83
REVIEWED BY:

Logged By: B. Graham
Drilling Co.: Zebra Drilling
Foreman: Eric Pope

Geoprobe Location: See Plan
Ground Surface Elev. (ft.):
Final Geoprobe Depth (ft.): 4
Date Start - Finish: 7/2/2013 - 7/2/2013

H. Datum:
V. Datum:

Type of Rig: GeoProbe
Rig Model: 8 M
Drilling Method: Direct Push

Sampler Type: Macro Core
Sampler O.D. (in.): 2.0
Sampler Length (in.): 36
Rock Core Size:

Groundwater Depth (ft.)

Date	Time	Water Depth	Stab. Time

Depth (ft)	Sample					Sample Description Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	PID (ppm)					
	S-1	0-2	24	22	ND	S-1: 0-6": GRAVEL base, trace Topsoil	1			
						6"-22": Red-brown, fine SAND, some Silt, little fine to coarse	2			
	S-2	2-4	24	24	ND	Gravel			SAND	
						S-2: Red-brown, fine SAND, some Silt, little fine to coarse				4
						Gravel				
5						End of exploration at 4 feet.				
10										
15										
20										
25										
30										

REMARKS

1 - Soil samples screened with a 10.6 eV MiniRAE photoionization detector (PID). PID values represent meter response in parts per million (ppm) relative to benzene in air and above background readings. ND=None Detected above background.
 2 - Collected samples from potential laboratory analysis from 0.5-0.75', 0.75-1.0', 1.75-2', 2.75-3', 3.75-4' below grade.

Stratification lines represent approximate boundaries between soil types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Ext-8

GEOPROBE LOG



GZA
GeoEnvironmental, Inc.
Engineers and Scientists

COMMERCIAL FOUNDRY
 326 South Street
 New Britain, CT

EXPLORATION NO.: Ext-9
SHEET: 1 of 1
PROJECT NO: 05.0043369.83
REVIEWED BY:

Logged By: B. Graham
Drilling Co.: Zebra Drilling
Foreman: Eric Pope

Geoprobe Location: See Plan
Ground Surface Elev. (ft.):
Final Geoprobe Depth (ft.): 4
Date Start - Finish: 7/2/2013 - 7/2/2013

H. Datum:
V. Datum:

Type of Rig: GeoProbe
Rig Model: 8 M
Drilling Method: Direct Push

Sampler Type: Macro Core
Sampler O.D. (in.): 2.0
Sampler Length (in.): 36
Rock Core Size:

Groundwater Depth (ft.)

Date	Time	Water Depth	Stab. Time

Depth (ft)	Sample					Sample Description Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	PID (ppm)					
	S-1	0-2	24	24	ND	S-1: 0-5": GRAVEL base, trace Topsoil	1			
						5-24": Red-brown, fine SAND, some Silt, some fine to coarse Gravel	2			
	S-2	2-4	24	12	ND	S-2: Red-brown, fine SAND, some Silt, some fine to coarse Gravel (Pieces of Brick in end of sampler)			SAND	4
5						End of exploration at 4 feet.				
10										
15										
20										
25										
30										

REMARKS

1 - Soil samples screened with a 10.6 eV MiniRAE photoionization detector (PID). PID values represent meter response in parts per million (ppm) relative to benzene in air and above background readings. ND=None Detected above background.
 2 - Collected samples from potential laboratory analysis from 0.5-0.75', 0.75-1.0', 1.75-2', 2.75-3', 3.75-4' below grade.

Stratification lines represent approximate boundaries between soil types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Ext-9

GEOPROBE LOG



GZA
GeoEnvironmental, Inc.
Engineers and Scientists

COMMERCIAL FOUNDRY
 326 South Street
 New Britain, CT

EXPLORATION NO.: Ext-10
SHEET: 1 of 1
PROJECT NO: 05.0043369.83
REVIEWED BY:

Logged By: B. Graham
Drilling Co.: Zebra Drilling
Foreman: Eric Pope

Geoprobe Location: See Plan
Ground Surface Elev. (ft.):
Final Geoprobe Depth (ft.): 4
Date Start - Finish: 7/2/2013 - 7/2/2013

H. Datum:
V. Datum:

Type of Rig: GeoProbe
Rig Model: 8 M
Drilling Method: Direct Push

Sampler Type: Macro Core
Sampler O.D. (in.): 2.0
Sampler Length (in.): 36
Rock Core Size:

Groundwater Depth (ft.)

Date	Time	Water Depth	Stab. Time

Depth (ft)	Sample					Sample Description Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	PID (ppm)					
	S-1	0-2	24	20	ND	S-1: 0-2": Organic TOPSOIL	1			
						2-20": Red-brown, fine to medium SAND, some Silt, some fine Gravel	2			
	S-2	2-4	24	24	ND	S-2: Red-brown, fine SAND, some Silt, trace fine to coarse Gravel			SAND	4
5						End of exploration at 4 feet.				
10										
15										
20										
25										
30										

REMARKS

1 - Soil samples screened with a 10.6 eV MiniRAE photoionization detector (PID). PID values represent meter response in parts per million (ppm) relative to benzene in air and above background readings. ND=None Detected above background.
 2 - Collected samples from potential laboratory analysis from 0.25-0.5', 0.5-0.75', 0.75-1.0', 1.75-2', 2.75-3', 3.75-4' below grade.

Stratification lines represent approximate boundaries between soil types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Ext-10

GEOPROBE LOG



GZA
GeoEnvironmental, Inc.
Engineers and Scientists

COMMERCIAL FOUNDRY
 326 South Street
 New Britain, CT

EXPLORATION NO.: Ext-106
SHEET: 1 of 1
PROJECT NO: 05.0043369.83
REVIEWED BY:

Logged By: A. Trani
Drilling Co.: Zebra Drilling
Foreman: Eric Pope

Geoprobe Location: See Plan
Ground Surface Elev. (ft.):
Final Geoprobe Depth (ft.): 6
Date Start - Finish: 7/2/2013 - 7/2/2013

H. Datum:
V. Datum:

Type of Rig: GeoProbe
Rig Model: 8 M
Drilling Method: Direct Push

Sampler Type: Macro Core
Sampler O.D. (in.): 2.0
Sampler Length (in.): 36
Rock Core Size:

Groundwater Depth (ft.)

Date	Time	Water Depth	Stab. Time

Depth (ft)	Sample					Sample Description Modified Burmister	Remark	Elev. (ft.)	Stratum Description	Depth (ft.)
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	PID (ppm)					
5	S-1	2-4	24	18		S-1: Top 12": Red-brown, Clayey SILT, trace Concrete, fine Grass	1		FILL	3
	S-2	4-6	24	24		Bottom 12": Red-brown Clayey SILT, trace Sand, wet S-2:			CLAYEY SILT	6
10						End of exploration at 6 feet.				
15										
20										
25										
30										

REMARKS 1 - Samples collected 2-4' and 4-6' below grade for potential laboratory analysis.

Stratification lines represent approximate boundaries between soil types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

Ext-106

GEOPROBE LOG



GZA
GeoEnvironmental, Inc.
Engineers and Scientists

Commercial Foundry
 326 South Street
 New Britain, Connecticut

EXPLORATION NO.: MW-3R
SHEET: 1 of 1
PROJECT NO: 43369.82
REVIEWED BY:

Logged By: S. Pavlesich
Drilling Co.: Zebra
Foreman: Luke

Geoprobe Location: See Plan
Ground Surface Elev. (ft.):
Final Geoprobe Depth (ft.): 15
Date Start - Finish: 12/26/2013 - 12/26/2013

H. Datum:
V. Datum:

Type of Rig: GeoProbe
Rig Model: 6620DT
Drilling Method: Direct Push

Sampler Type: MC
Sampler O.D. (in.): 2.0
Sampler Length (in.): 60
Rock Core Size:

Groundwater Depth (ft.)

Date	Time	Water Depth	Stab. Time

Depth (ft)	Sample					Sample Description Modified Burmister	Remark	Elev. (ft.) Stratum Description	Depth (ft.)	Equipment Installed	
	No.	Depth (ft.)	Pen. (in)	Rec. (in)	PID* (ppm)					Roadway Box	
5	S-1	0-5	60	6	ND	Gray, fine to coarse GRAVEL	1				
10	S-2	5-10	60	48	ND	Dark brown-red CLAY, moist, no odor or stain, water around 5 to 6 feet		GRAVEL	5		Native (0.5-1')
15	S-3	10-15	60	48	ND	Top 24": Dark brown-red CLAY Bottom 24": Dark brown-red, fine SAND and SILT, trace fine Gravel, tight, no odor or stain		CLAY	10		Bentonite (1-3')
								SAND AND SILT	15		Filter Sand (3-15') 2" PVC Screen (5-15')
20						End of exploration at 15 feet.	2				
25											
30											

REMARKS

1 - Soil samples screened with a 10.6 eV MiniRAE photoionization detector (PID). PID values represent meter response in parts per million (ppm) relative to benzene in air and above background readings. A "" indicates a sample sent to a laboratory for additional analyses or screening. ND=None Detected above background.
 2 - 10 feet of 2 inch diameter, Schedule 40, threaded, flush joint, 10-slot PVC well screen set at approximately 15 feet below grade. Well completed to ground surface with a 2 inch diameter, Schedule 40, threaded, flush joint, PVC riser. Filter sand placed in annulus around well from 3 to 15 feet below grade. Bentonite seal installed from 1 to 3 feet below grade. Remaining annulus filled with native from 0.5 to 1 feet below grade. Well protected with flush mount.

Stratification lines represent approximate boundaries between soil types. Actual transitions may be gradual. Water level readings have been made at the times and under the conditions stated. Fluctuations of groundwater may occur due to other factors than those present at the times the measurements were made.

MW-3R

APPENDIX C
LABORATORY ANALYTICAL REPORTS



Sunday, December 23, 2012

Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Project ID: COMMERCIAL FOUNDRY 43369.82
Sample ID#s: BD10647 - BD10650

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 23, 2012

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: 24 Hour
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

<u>Date</u>	<u>Time</u>
12/19/12	12:40
12/19/12	14:09

Laboratory Data

SDG ID: GBD10647
Phoenix ID: BD10647

Project ID: COMMERCIAL FOUNDRY 43369.82
Client ID: A14-F-1 (0-0.5 IN)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	12/20/12	LB	E160.3
Extraction for PCB	Completed			12/19/12	BB/K/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.33	mg/kg	12/20/12	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	12/20/12	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	12/20/12	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	12/20/12	AW	3540C/8082
PCB-1248	ND	0.33	mg/kg	12/20/12	AW	3540C/8082
PCB-1254	ND	0.33	mg/kg	12/20/12	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	12/20/12	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	12/20/12	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	12/20/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	84	%	12/20/12	AW	30 - 150 %
% TCMX	75	%	12/20/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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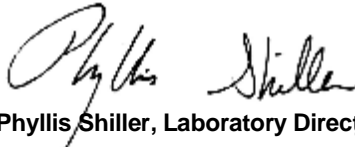
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

December 23, 2012

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 23, 2012

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: 24 Hour
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/19/12 12:50
12/19/12 14:09

Laboratory Data

SDG ID: GBD10647
Phoenix ID: BD10648

Project ID: COMMERCIAL FOUNDRY 43369.82
Client ID: A14-F-2 (0-0.5 IN)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	12/20/12	LB	E160.3
Extraction for PCB	Completed			12/19/12	BB/K/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.33	mg/kg	12/20/12	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	12/20/12	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	12/20/12	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	12/20/12	AW	3540C/8082
PCB-1248	ND	0.33	mg/kg	12/20/12	AW	3540C/8082
PCB-1254	ND	0.33	mg/kg	12/20/12	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	12/20/12	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	12/20/12	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	12/20/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	77	%	12/20/12	AW	30 - 150 %
% TCMX	78	%	12/20/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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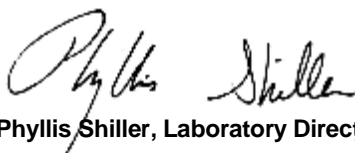
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

December 23, 2012

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 23, 2012

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: 24 Hour
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/19/12 13:00
12/19/12 14:09

Laboratory Data

SDG ID: GBD10647
Phoenix ID: BD10649

Project ID: COMMERCIAL FOUNDRY 43369.82
Client ID: A14-F-3 (0-0.5 IN)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	12/20/12	LB	E160.3
Extraction for PCB	Completed			12/19/12	BB/K/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.33	mg/kg	12/20/12	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	12/20/12	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	12/20/12	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	12/20/12	AW	3540C/8082
PCB-1248	ND	0.33	mg/kg	12/20/12	AW	3540C/8082
PCB-1254	ND	0.33	mg/kg	12/20/12	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	12/20/12	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	12/20/12	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	12/20/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	74	%	12/20/12	AW	30 - 150 %
% TCMX	74	%	12/20/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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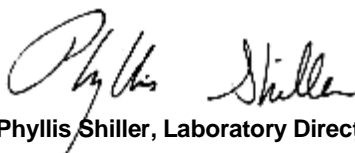
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

December 23, 2012

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 23, 2012

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: 24 Hour
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/19/12 13:10
12/19/12 14:09

Laboratory Data

SDG ID: GBD10647
Phoenix ID: BD10650

Project ID: COMMERCIAL FOUNDRY 43369.82
Client ID: A14-F-4 (0-0.5 IN)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	12/20/12	LB	E160.3
Extraction for PCB	Completed			12/19/12	BB/K/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.33	mg/kg	12/20/12	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	12/20/12	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	12/20/12	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	12/20/12	AW	3540C/8082
PCB-1248	2.7	0.33	mg/kg	12/20/12	AW	3540C/8082
PCB-1254	ND	0.33	mg/kg	12/20/12	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	12/20/12	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	12/20/12	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	12/20/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	106	%	12/20/12	AW	30 - 150 %
% TCMX	80	%	12/20/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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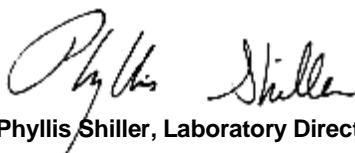
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

December 23, 2012

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

December 23, 2012

QA/QC Data

SDG I.D.: GBD10647

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 216596, QC Sample No: BD10340 (BD10647, BD10648, BD10649, BD10650)									
Polychlorinated Biphenyls - Solid									
PCB-1016	ND	80	79	1.3	79			40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	93	92	1.1	192			40 - 140	30 m
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	107	103	104	1.0	88			30 - 150	30
% TCMX (Surrogate Rec)	109	111	110	0.9	90			30 - 150	30

m = This parameter is outside laboratory ms/msd specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis Shiller, Laboratory Director
December 23, 2012

Sunday, December 23, 2012

Requested Criteria: None

State: CT

Sample Criteria Exceedences Report

GBD10647 - GZA-PCB

Page 1 of 1

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
--------	-------	-----------------	----------	--------	----	----------	----------------	-------------------

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** GZA-PCB

Project Location: COMMERCIAL FOUNDRY 4336 **Project Number:**

Laboratory Sample ID(s): BD10647, BD10648, BD10649, BD10650

Sampling Date(s): 12/19/2012

RCP Methods Used:

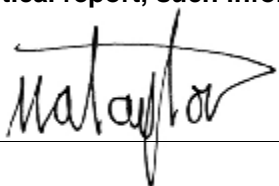
☐ 1311/1312 ☐ 6010 ☐ 7000 ☐ 7196 ☐ 7470/7471 ☐ 8081 ☐ EPH ☐ TO15
☒ 8082 ☐ 8151 ☐ 8260 ☐ 8270 ☐ ETPH ☐ 9010/9012 ☐ VPH

1.	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1a.	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1b.	EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2.	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
4.	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5a.	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5b.	Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
6.	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA

Note: For all questions to which the response was "No" (with the exception of question #5a, #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized
Signature:



Date: Sunday, December 23, 2012

Printed Name: Maryam Taylor

Position: Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

December 23, 2012

SDG I.D.: GBD10647

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Au-ecd8 12/20/12-1 (BD10647, BD10648, BD10649, BD10650)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner

Position: Chemist

Date: 12/20/2012

QC Comments: QC Batch 16596 12/18/12 (BD10647, BD10648, BD10649, BD10650)

QC (Batch Specific)

----- Sample No: BD10340, QA/QC Batch: 216596 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Temperature Narration

The samples in this delivery group were received at 8°C.

(Note acceptance criteria is above freezing up to 6°C)

Cooler: Yes ☒ No ☐
Coolant: IPK ☐ ICE ☒ N ☐

Temp 8 °C Pg of

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, Manchester, CT 06040
Email: info@phenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726Customer: GEA GeoEnviron-ment
Address: 655 Winding Brook Drive
Glastonbury CT 06033Project: Commercial Property 43369.82
Report to: Jim Hutton
Invoice to: Jim HuttonProject P.O.:
Phone #: 860 286 8900
Fax #:

Data Delivery:

☐ Fax #:

Email: james.hutton@gea.com

Client Sample Information - Identification

Sampler's Signature

Date: 12/19/12

Matrix Code:

DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
SE=Sediment SL=Sludge S=Soil/Solid W=Wipe O=Other

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
10647	A14-F1(0-0.5")	Concrete	12/19/12	1240
10648	A14-F-2(0-0.5")	↓	↓	1250
10649	A14-F-3(0-0.5")	↓	↓	1300
10650	A14-F-4(0-0.5")	↓	↓	1310

Analysis Request

RC6 by Groundwater

Soil VOA Vial (Methanol) 100ml	40 ml VOA Vial () 100ml	GL Soil container () 100ml	GL Amber 1000ml () 100ml	PL As Is () 1250ml	PL H2SO4 () 1250ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
X	X	X	X	X	X	X	X	X

Relinquished by:

Accepted by:

Date:

Time:

RI

☐ Direct Exposure (Residential)
☐ GW
☐ Other

CT

☒ RCP Cert
☐ GW Protection
☐ SW Protection
☐ GA Mobility
☐ GB Mobility
☐ Residential DEC
☐ I/C DEC
☐ Other

MA

☐ MCP Certification
☐ GW-1
☐ GW-2
☐ GW-3
☐ S-1
☐ S-2
☐ S-3
☐ MWRA eSMART
☐ Other

Data Format

☒ Excel
☒ PDF
☐ GIS/Key
☐ EQUIS
☐ Other

Comments, Special Requirements or Regulations:

*Detection Limit less than 0.5 ppb

Turnaround:

☒ 1 Day*
☐ 2 Days*
☐ 3 Days*
☐ Standard
☐ Other

* SURCHARGE APPLIES

State where samples were collected: CT

* SURCHARGE APPLIES



Thursday, January 03, 2013

Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Project ID: 05.0043369.82 COMMERCIAL FOUNDRY
Sample ID#s: BD12627 - BD12645, BD12651 - BD12658

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: 24 Hour
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/24/12 9:40
12/26/12 16:15

Laboratory Data

SDG ID: GBD12627
Phoenix ID: BD12627

Project ID: 05.0043369.82 COMMERCIAL FOUNDRY
Client ID: A14 S-3 (1.5-1.75 FT)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	90		%	12/26/12	jl	E160.3
Extraction for PCB	Completed			12/26/12	BQ/K/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.072	mg/kg	12/28/12	AW	3540C/8082
PCB-1221	ND	0.072	mg/kg	12/28/12	AW	3540C/8082
PCB-1232	ND	0.072	mg/kg	12/28/12	AW	3540C/8082
PCB-1242	ND	0.072	mg/kg	12/28/12	AW	3540C/8082
PCB-1248	*	0.072	mg/kg	12/28/12	AW	3540C/8082
PCB-1254	ND	0.072	mg/kg	12/28/12	AW	3540C/8082
PCB-1260	ND	0.072	mg/kg	12/28/12	AW	3540C/8082
PCB-1262	ND	0.072	mg/kg	12/28/12	AW	3540C/8082
PCB-1268	ND	0.072	mg/kg	12/28/12	AW	3540C/8082
Total PCBs	0.35	0.072	mg/kg	12/28/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	76	%	12/28/12	AW	30 - 150 %
% TCMX	80	%	12/28/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

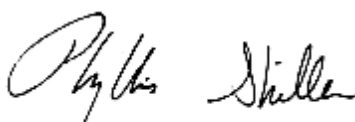
Comments:

* For PCBs, as per section 11.9.3, when weathering of PCBs is present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles aroclor 1248.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: 24 Hour
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/24/12 9:45
12/26/12 16:15

Laboratory Data

SDG ID: GBD12627
Phoenix ID: BD12628

Project ID: 05.0043369.82 COMMERCIAL FOUNDRY
Client ID: A14 S-4 (2.5-2.75 FT)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	82		%	12/26/12	jl	E160.3
Extraction for PCB	Completed			12/26/12	BQ/K/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	39	mg/kg	12/28/12	AW	3540C/8082
PCB-1221	ND	39	mg/kg	12/28/12	AW	3540C/8082
PCB-1232	ND	39	mg/kg	12/28/12	AW	3540C/8082
PCB-1242	ND	39	mg/kg	12/28/12	AW	3540C/8082
PCB-1248	*	39	mg/kg	12/28/12	AW	3540C/8082
PCB-1254	ND	39	mg/kg	12/28/12	AW	3540C/8082
PCB-1260	ND	39	mg/kg	12/28/12	AW	3540C/8082
PCB-1262	ND	39	mg/kg	12/28/12	AW	3540C/8082
PCB-1268	ND	39	mg/kg	12/28/12	AW	3540C/8082
Total PCBs	420	39	mg/kg	12/28/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out	%	12/28/12	AW	30 - 150 %
% TCMX	Diluted Out	%	12/28/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

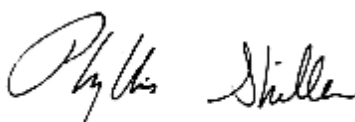
Comments:

* For PCBs, as per section 11.9.3, when weathering of PCBs is present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles aroclor 1248.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: 24 Hour
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/24/12 9:50
12/26/12 16:15

Laboratory Data

SDG ID: GBD12627
Phoenix ID: BD12629

Project ID: 05.0043369.82 COMMERCIAL FOUNDRY
Client ID: A14 S-5 (2.75-3.0 FT)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	87		%	12/26/12	jl	E160.3
Extraction for PCB	Completed			12/26/12	BQ/K/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.076	mg/kg	12/28/12	AW	3540C/8082
PCB-1221	ND	0.076	mg/kg	12/28/12	AW	3540C/8082
PCB-1232	ND	0.076	mg/kg	12/28/12	AW	3540C/8082
PCB-1242	ND	0.076	mg/kg	12/28/12	AW	3540C/8082
PCB-1248	*	0.076	mg/kg	12/28/12	AW	3540C/8082
PCB-1254	ND	0.076	mg/kg	12/28/12	AW	3540C/8082
PCB-1260	ND	0.076	mg/kg	12/28/12	AW	3540C/8082
PCB-1262	ND	0.076	mg/kg	12/28/12	AW	3540C/8082
PCB-1268	ND	0.076	mg/kg	12/28/12	AW	3540C/8082
Total PCBs	1	0.076	mg/kg	12/28/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	80	%	12/28/12	AW	30 - 150 %
% TCMX	78	%	12/28/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

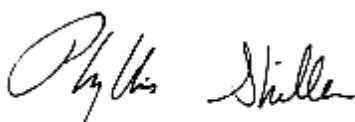
Comments:

* For PCBs, as per section 11.9.3, when weathering of PCBs is present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles aroclor 1248.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/24/12 8:15
12/26/12 16:15

Laboratory Data

SDG ID: GBD12627
Phoenix ID: BD12630

Project ID: 05.0043369.82 COMMERCIAL FOUNDRY
Client ID: A14 S-6 (2.5-2.75 FT)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	85		%	12/26/12	jl	E160.3
Extraction for PCB	Completed			12/26/12	BQ/K/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.076	mg/kg	12/28/12	AW	3540C/8082
PCB-1221	ND	0.076	mg/kg	12/28/12	AW	3540C/8082
PCB-1232	ND	0.076	mg/kg	12/28/12	AW	3540C/8082
PCB-1242	ND	0.076	mg/kg	12/28/12	AW	3540C/8082
PCB-1248	*	0.076	mg/kg	12/28/12	AW	3540C/8082
PCB-1254	*	0.076	mg/kg	12/28/12	AW	3540C/8082
PCB-1260	ND	0.076	mg/kg	12/28/12	AW	3540C/8082
PCB-1262	ND	0.076	mg/kg	12/28/12	AW	3540C/8082
PCB-1268	ND	0.076	mg/kg	12/28/12	AW	3540C/8082
Total PCBs	0.63	0.076	mg/kg	12/28/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	80	%	12/28/12	AW	30 - 150 %
% TCMX	73	%	12/28/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

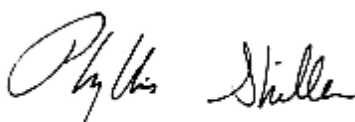
Comments:

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/24/12 9:30
12/26/12 16:15

Laboratory Data

SDG ID: GBD12627
Phoenix ID: BD12631

Project ID: 05.0043369.82 COMMERCIAL FOUNDRY
Client ID: A14 S-7 (2.5-2.75 FT)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	83		%	12/26/12	jl	E160.3
Extraction for PCB	Completed			12/26/12	BQ/K/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.079	mg/kg	12/28/12	AW	3540C/8082
PCB-1221	ND	0.079	mg/kg	12/28/12	AW	3540C/8082
PCB-1232	ND	0.079	mg/kg	12/28/12	AW	3540C/8082
PCB-1242	ND	0.079	mg/kg	12/28/12	AW	3540C/8082
PCB-1248	ND	0.079	mg/kg	12/28/12	AW	3540C/8082
PCB-1254	ND	0.079	mg/kg	12/28/12	AW	3540C/8082
PCB-1260	ND	0.079	mg/kg	12/28/12	AW	3540C/8082
PCB-1262	ND	0.079	mg/kg	12/28/12	AW	3540C/8082
PCB-1268	ND	0.079	mg/kg	12/28/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	80	%	12/28/12	AW	30 - 150 %
% TCMX	72	%	12/28/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/24/12 9:35
12/26/12 16:15

Laboratory Data

SDG ID: GBD12627
Phoenix ID: BD12632

Project ID: 05.0043369.82 COMMERCIAL FOUNDRY
Client ID: A14 S-8 (2.75-3 FT)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	86		%	12/26/12	jl	E160.3
Extraction for PCB	Completed			12/26/12	BQ/K/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.077	mg/kg	12/28/12	AW	3540C/8082
PCB-1221	ND	0.077	mg/kg	12/28/12	AW	3540C/8082
PCB-1232	ND	0.077	mg/kg	12/28/12	AW	3540C/8082
PCB-1242	ND	0.077	mg/kg	12/28/12	AW	3540C/8082
PCB-1248	*	0.077	mg/kg	12/28/12	AW	3540C/8082
PCB-1254	ND	0.077	mg/kg	12/28/12	AW	3540C/8082
PCB-1260	ND	0.077	mg/kg	12/28/12	AW	3540C/8082
PCB-1262	ND	0.077	mg/kg	12/28/12	AW	3540C/8082
PCB-1268	ND	0.077	mg/kg	12/28/12	AW	3540C/8082
Total PCBs	0.15	0.077	mg/kg	12/28/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	83	%	12/28/12	AW	30 - 150 %
% TCMX	77	%	12/28/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

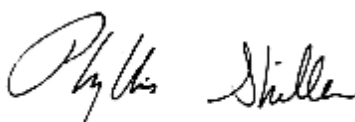
Comments:

* For PCBs, as per section 11.9.3, when weathering of PCBs is present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles aroclor 1248.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/24/12 12:05
12/26/12 16:15

Laboratory Data

SDG ID: GBD12627
Phoenix ID: BD12633

Project ID: 05.0043369.82 COMMERCIAL FOUNDRY
Client ID: A14 S-9 (2.5-2.75 FT)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	83		%	12/26/12	jl	E160.3
Extraction for PCB	Completed			12/26/12	BQ/K/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.079	mg/kg	12/28/12	AW	3540C/8082
PCB-1221	ND	0.079	mg/kg	12/28/12	AW	3540C/8082
PCB-1232	ND	0.079	mg/kg	12/28/12	AW	3540C/8082
PCB-1242	ND	0.079	mg/kg	12/28/12	AW	3540C/8082
PCB-1248	*	0.079	mg/kg	12/28/12	AW	3540C/8082
PCB-1254	*	0.079	mg/kg	12/28/12	AW	3540C/8082
PCB-1260	ND	0.079	mg/kg	12/28/12	AW	3540C/8082
PCB-1262	ND	0.079	mg/kg	12/28/12	AW	3540C/8082
PCB-1268	ND	0.079	mg/kg	12/28/12	AW	3540C/8082
Total PCBs	0.94	0.079	mg/kg	12/28/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	80	%	12/28/12	AW	30 - 150 %
% TCMX	74	%	12/28/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

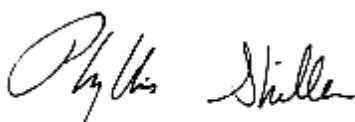
Comments:

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254.

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

12/24/12
12/26/12

Time

12:10
16:15

Laboratory Data

SDG ID: GBD12627
Phoenix ID: BD12634

Project ID: 05.0043369.82 COMMERCIAL FOUNDRY
Client ID: A14 S-10 (1.5-1.75 FT)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	90		%	12/26/12	jl	E160.3
Extraction for PCB	Completed			12/26/12	BQ/K/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.73	mg/kg	12/28/12	AW	3540C/8082
PCB-1221	ND	0.73	mg/kg	12/28/12	AW	3540C/8082
PCB-1232	ND	0.73	mg/kg	12/28/12	AW	3540C/8082
PCB-1242	ND	0.73	mg/kg	12/28/12	AW	3540C/8082
PCB-1248	*	0.73	mg/kg	12/28/12	AW	3540C/8082
PCB-1254	*	0.73	mg/kg	12/28/12	AW	3540C/8082
PCB-1260	ND	0.73	mg/kg	12/28/12	AW	3540C/8082
PCB-1262	ND	0.73	mg/kg	12/28/12	AW	3540C/8082
PCB-1268	ND	0.73	mg/kg	12/28/12	AW	3540C/8082
Total PCBs	5.5	0.73	mg/kg	12/28/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	108	%	12/28/12	AW	30 - 150 %
% TCMX	112	%	12/28/12	AW	30 - 150 %

Client ID: A14 S-10 (1.5-1.75 FT)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

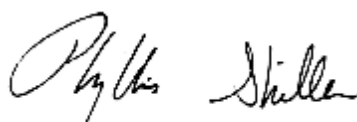
Comments:

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/24/12 12:12
12/26/12 16:15

Laboratory Data

SDG ID: GBD12627
Phoenix ID: BD12635

Project ID: 05.0043369.82 COMMERCIAL FOUNDRY
Client ID: A14 S-11 (2.75-3.0 FT)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	87		%	12/26/12	jl	E160.3
Extraction for PCB	Completed			12/26/12	BQ/K/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.75	mg/kg	12/28/12	AW	3540C/8082
PCB-1221	ND	0.75	mg/kg	12/28/12	AW	3540C/8082
PCB-1232	ND	0.75	mg/kg	12/28/12	AW	3540C/8082
PCB-1242	ND	0.75	mg/kg	12/28/12	AW	3540C/8082
PCB-1248	*	0.75	mg/kg	12/28/12	AW	3540C/8082
PCB-1254	*	0.75	mg/kg	12/28/12	AW	3540C/8082
PCB-1260	ND	0.75	mg/kg	12/28/12	AW	3540C/8082
PCB-1262	ND	0.75	mg/kg	12/28/12	AW	3540C/8082
PCB-1268	ND	0.75	mg/kg	12/28/12	AW	3540C/8082
Total PCBs	4.1	0.75	mg/kg	12/28/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	92	%	12/28/12	AW	30 - 150 %
% TCMX	96	%	12/28/12	AW	30 - 150 %

Client ID: A14 S-11 (2.75-3.0 FT)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

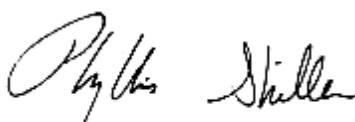
Comments:

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254.

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**Phyllis Shiller, Laboratory Director****January 03, 2013****Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/24/12 12:15
12/26/12 16:15

Laboratory Data

SDG ID: GBD12627
Phoenix ID: BD12636

Project ID: 05.0043369.82 COMMERCIAL FOUNDRY
Client ID: A14 S-12 (2.75-3.0 FT)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	87		%	12/26/12	jl	E160.3
Extraction for PCB	Completed			12/26/12	BQ/K/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.076	mg/kg	12/28/12	AW	3540C/8082
PCB-1221	ND	0.076	mg/kg	12/28/12	AW	3540C/8082
PCB-1232	ND	0.076	mg/kg	12/28/12	AW	3540C/8082
PCB-1242	ND	0.076	mg/kg	12/28/12	AW	3540C/8082
PCB-1248	*	0.076	mg/kg	12/28/12	AW	3540C/8082
PCB-1254	*	0.076	mg/kg	12/28/12	AW	3540C/8082
PCB-1260	ND	0.076	mg/kg	12/28/12	AW	3540C/8082
PCB-1262	ND	0.076	mg/kg	12/28/12	AW	3540C/8082
PCB-1268	ND	0.076	mg/kg	12/28/12	AW	3540C/8082
Total PCBs	0.12	0.076	mg/kg	12/28/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	79	%	12/28/12	AW	30 - 150 %
% TCMX	77	%	12/28/12	AW	30 - 150 %

Client ID: A14 S-12 (2.75-3.0 FT)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

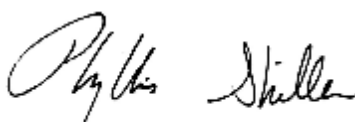
Comments:

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**Phyllis Shiller, Laboratory Director****January 03, 2013****Reviewed and Released by: Greg Lawrence, Assistant Lab Director**



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/24/12 12:20
12/26/12 16:15

Laboratory Data

SDG ID: GBD12627
Phoenix ID: BD12637

Project ID: 05.0043369.82 COMMERCIAL FOUNDRY
Client ID: A14 S-13 (3.5-3.75 FT)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	77		%	12/26/12	jl	E160.3
Extraction for PCB	Completed			12/26/12	BQ/K/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	210	mg/kg	12/31/12	AW	3540C/8082
PCB-1221	ND	210	mg/kg	12/31/12	AW	3540C/8082
PCB-1232	ND	210	mg/kg	12/31/12	AW	3540C/8082
PCB-1242	ND	210	mg/kg	12/31/12	AW	3540C/8082
PCB-1248	*	210	mg/kg	12/31/12	AW	3540C/8082
PCB-1254	ND	210	mg/kg	12/31/12	AW	3540C/8082
PCB-1260	ND	210	mg/kg	12/31/12	AW	3540C/8082
PCB-1262	ND	210	mg/kg	12/31/12	AW	3540C/8082
PCB-1268	ND	210	mg/kg	12/31/12	AW	3540C/8082
Total PCBs	710	210	mg/kg	12/31/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out	%	12/31/12	AW	30 - 150 %
% TCMX	Diluted Out	%	12/31/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

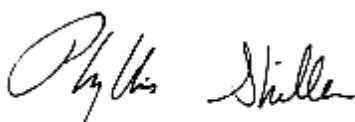
Comments:

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/24/12 9:25
12/26/12 16:15

Laboratory Data

SDG ID: GBD12627
Phoenix ID: BD12638

Project ID: 05.0043369.82 COMMERCIAL FOUNDRY
Client ID: ORANGEBORING PIPE

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	43		%	12/26/12	jl	E160.3
Extraction for PCB	Completed			12/26/12	BQ/K/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	470	mg/kg	12/28/12	AW	3540C/8082
PCB-1221	ND	470	mg/kg	12/28/12	AW	3540C/8082
PCB-1232	ND	470	mg/kg	12/28/12	AW	3540C/8082
PCB-1242	ND	470	mg/kg	12/28/12	AW	3540C/8082
PCB-1248	*	470	mg/kg	12/28/12	AW	3540C/8082
PCB-1254	ND	470	mg/kg	12/28/12	AW	3540C/8082
PCB-1260	ND	470	mg/kg	12/28/12	AW	3540C/8082
PCB-1262	ND	470	mg/kg	12/28/12	AW	3540C/8082
PCB-1268	ND	470	mg/kg	12/28/12	AW	3540C/8082
Total PCBs	6100	470	mg/kg	12/28/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out	%	12/28/12	AW	30 - 150 %
% TCMX	Diluted Out	%	12/28/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

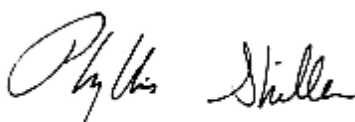
Comments:

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All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/24/12 11:15
12/26/12 16:15

Laboratory Data

SDG ID: GBD12627
Phoenix ID: BD12639

Project ID: 05.0043369.82 COMMERCIAL FOUNDRY
Client ID: A4-CEIL-1

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
PCB Wipe Extraction	Completed			12/26/12	BQ/K/E	SW-3540C

Polychlorinated Biphenyls

PCB-1016	ND	0.50	ug	12/31/12	AW	SW8082
PCB-1221	ND	0.50	ug	12/31/12	AW	SW8082
PCB-1232	ND	0.50	ug	12/31/12	AW	SW8082
PCB-1242	ND	0.50	ug	12/31/12	AW	SW8082
PCB-1248	*	0.50	ug	12/31/12	AW	SW8082
PCB-1254	ND	0.50	ug	12/31/12	AW	SW8082
PCB-1260	ND	0.50	ug	12/31/12	AW	SW8082
PCB-1262	ND	0.50	ug	12/31/12	AW	SW8082
PCB-1268	ND	0.50	ug	12/31/12	AW	SW8082
Total PCBs	0.8	0.50	ug	12/31/12	AW	SW8082

QA/QC Surrogates

% DCBP	70	%	12/31/12	AW	30 - 150 %
% TCMX	65	%	12/31/12	AW	30 - 150 %

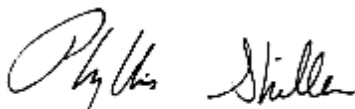
Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

* For PCBs, as per section 11.9.3, when weathering of PCBs is present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles aroclor 1248.

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/24/12 8:40
12/26/12 16:15

Laboratory Data

SDG ID: GBD12627
Phoenix ID: BD12640

Project ID: 05.0043369.82 COMMERCIAL FOUNDRY
Client ID: A11-CEIL-1

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
PCB Wipe Extraction	Completed			12/26/12	BQ/K/E	SW-3540C

Polychlorinated Biphenyls

PCB-1016	ND	0.50	ug	12/27/12	AW	SW8082
PCB-1221	ND	0.50	ug	12/27/12	AW	SW8082
PCB-1232	ND	0.50	ug	12/27/12	AW	SW8082
PCB-1242	ND	0.50	ug	12/27/12	AW	SW8082
PCB-1248	ND	0.50	ug	12/27/12	AW	SW8082
PCB-1254	ND	0.50	ug	12/27/12	AW	SW8082
PCB-1260	ND	0.50	ug	12/27/12	AW	SW8082
PCB-1262	ND	0.50	ug	12/27/12	AW	SW8082
PCB-1268	ND	0.50	ug	12/27/12	AW	SW8082

QA/QC Surrogates

% DCBP	67	%	12/27/12	AW	30 - 150 %
% TCMX	61	%	12/27/12	AW	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director
January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/24/12 10:25
12/26/12 16:15

Laboratory Data

SDG ID: GBD12627
Phoenix ID: BD12641

Project ID: 05.0043369.82 COMMERCIAL FOUNDRY
Client ID: A10-CEIL-1

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
PCB Wipe Extraction	Completed			12/26/12	BQ/K/E	SW-3540C

Polychlorinated Biphenyls

PCB-1016	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1221	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1232	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1242	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1248	0.50	0.50	ug	12/28/12	AW	SW8082
PCB-1254	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1260	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1262	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1268	ND	0.50	ug	12/28/12	AW	SW8082

QA/QC Surrogates

% DCBP	74	%	12/28/12	AW	30 - 150 %
% TCMX	72	%	12/28/12	AW	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director
January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/24/12 10:20
12/26/12 16:15

Laboratory Data

SDG ID: GBD12627
Phoenix ID: BD12642

Project ID: 05.0043369.82 COMMERCIAL FOUNDRY
Client ID: A10-CEIL-2

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
PCB Wipe Extraction	Completed			12/27/12	BQ/K/E	SW-3540C

Polychlorinated Biphenyls

PCB-1016	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1221	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1232	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1242	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1248	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1254	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1260	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1262	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1268	ND	0.50	ug	12/28/12	AW	SW8082

QA/QC Surrogates

% DCBP	73	%	12/28/12	AW	30 - 150 %
% TCMX	72	%	12/28/12	AW	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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Phyllis Shiller, Laboratory Director
January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/24/12 10:15
12/26/12 16:15

Laboratory Data

SDG ID: GBD12627
Phoenix ID: BD12643

Project ID: 05.0043369.82 COMMERCIAL FOUNDRY
Client ID: A10-CEIL-3

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
PCB Wipe Extraction	Completed			12/27/12	BQ/K/E	SW-3540C

Polychlorinated Biphenyls

PCB-1016	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1221	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1232	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1242	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1248	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1254	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1260	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1262	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1268	ND	0.50	ug	12/28/12	AW	SW8082

QA/QC Surrogates

% DCBP	71	%	12/28/12	AW	30 - 150 %
% TCMX	72	%	12/28/12	AW	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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Phyllis Shiller, Laboratory Director
January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/24/12 10:10
12/26/12 16:15

Laboratory Data

SDG ID: GBD12627
Phoenix ID: BD12644

Project ID: 05.0043369.82 COMMERCIAL FOUNDRY
Client ID: A10-CEIL-4

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
PCB Wipe Extraction	Completed			12/27/12	BQ/K/E	SW-3540C

Polychlorinated Biphenyls

PCB-1016	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1221	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1232	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1242	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1248	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1254	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1260	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1262	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1268	ND	0.50	ug	12/28/12	AW	SW8082

QA/QC Surrogates

% DCBP	73	%	12/28/12	AW	30 - 150 %
% TCMX	76	%	12/28/12	AW	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director
January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/24/12 9:55
12/26/12 16:15

Laboratory Data

SDG ID: GBD12627
Phoenix ID: BD12645

Project ID: 05.0043369.82 COMMERCIAL FOUNDRY
Client ID: A12-CEIL-5

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
PCB Wipe Extraction	Completed			12/27/12	BQ/K/E	SW-3540C

Polychlorinated Biphenyls

PCB-1016	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1221	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1232	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1242	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1248	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1254	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1260	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1262	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1268	ND	0.50	ug	12/28/12	AW	SW8082

QA/QC Surrogates

% DCBP	70	%	12/28/12	AW	30 - 150 %
% TCMX	72	%	12/28/12	AW	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director
January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: WIPE
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/24/12 11:00
12/26/12 16:15

Laboratory Data

SDG ID: GBD12627
Phoenix ID: BD12651

Project ID: 05.0043369.82 COMMERCIAL FOUNDRY
Client ID: A10-CEIL-11

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
PCB Wipe Extraction	Completed			12/27/12	BQ/K/E	SW-3540C

Polychlorinated Biphenyls

PCB-1016	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1221	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1232	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1242	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1248	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1254	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1260	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1262	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1268	ND	0.50	ug	12/28/12	AW	SW8082

QA/QC Surrogates

% DCBP	73	%	12/28/12	AW	30 - 150 %
% TCMX	71	%	12/28/12	AW	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director
January 03, 2013

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Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: WIPE
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/24/12 11:05
12/26/12 16:15

Laboratory Data

SDG ID: GBD12627
Phoenix ID: BD12652

Project ID: 05.0043369.82 COMMERCIAL FOUNDRY
Client ID: A10-CEIL-12

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
PCB Wipe Extraction	Completed			12/27/12	BQ/K/E	SW-3540C

Polychlorinated Biphenyls

PCB-1016	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1221	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1232	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1242	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1248	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1254	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1260	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1262	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1268	ND	0.50	ug	12/28/12	AW	SW8082

QA/QC Surrogates

% DCBP	73	%	12/28/12	AW	30 - 150 %
% TCMX	79	%	12/28/12	AW	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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Phyllis Shiller, Laboratory Director
January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: WIPE
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/24/12 11:10
12/26/12 16:15

Laboratory Data

SDG ID: GBD12627
Phoenix ID: BD12653

Project ID: 05.0043369.82 COMMERCIAL FOUNDRY
Client ID: A10-CEIL-13

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
PCB Wipe Extraction	Completed			12/27/12	BQ/K/E	SW-3540C

Polychlorinated Biphenyls

PCB-1016	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1221	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1232	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1242	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1248	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1254	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1260	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1262	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1268	ND	0.50	ug	12/28/12	AW	SW8082

QA/QC Surrogates

% DCBP	74	%	12/28/12	AW	30 - 150 %
% TCMX	71	%	12/28/12	AW	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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Phyllis Shiller, Laboratory Director
January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: WIPE
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/24/12 9:00
12/26/12 16:15

Laboratory Data

SDG ID: GBD12627
Phoenix ID: BD12654

Project ID: 05.0043369.82 COMMERCIAL FOUNDRY
Client ID: A12-CEIL-1

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
PCB Wipe Extraction	Completed			12/27/12	BQ/K/E	SW-3540C

Polychlorinated Biphenyls

PCB-1016	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1221	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1232	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1242	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1248	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1254	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1260	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1262	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1268	ND	0.50	ug	12/28/12	AW	SW8082

QA/QC Surrogates

% DCBP	66	%	12/28/12	AW	30 - 150 %
% TCMX	66	%	12/28/12	AW	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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January 03, 2013

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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: WIPE
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/24/12 9:05
12/26/12 16:15

Laboratory Data

SDG ID: GBD12627
Phoenix ID: BD12655

Project ID: 05.0043369.82 COMMERCIAL FOUNDRY
Client ID: A12-CEIL-2

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
PCB Wipe Extraction	Completed			12/27/12	BQ/K/E	SW-3540C

Polychlorinated Biphenyls

PCB-1016	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1221	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1232	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1242	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1248	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1254	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1260	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1262	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1268	ND	0.50	ug	12/28/12	AW	SW8082

QA/QC Surrogates

% DCBP	71	%	12/28/12	AW	30 - 150 %
% TCMX	77	%	12/28/12	AW	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: WIPE
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/24/12 9:10
12/26/12 16:15

Laboratory Data

SDG ID: GBD12627
Phoenix ID: BD12656

Project ID: 05.0043369.82 COMMERCIAL FOUNDRY
Client ID: A12-CEIL-3

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
PCB Wipe Extraction	Completed			12/27/12	BQ/K/E	SW-3540C

Polychlorinated Biphenyls

PCB-1016	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1221	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1232	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1242	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1248	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1254	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1260	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1262	ND	0.50	ug	12/28/12	AW	SW8082
PCB-1268	ND	0.50	ug	12/28/12	AW	SW8082

QA/QC Surrogates

% DCBP	70	%	12/28/12	AW	30 - 150 %
% TCMX	76	%	12/28/12	AW	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: WIPE
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/24/12 9:15
12/26/12 16:15

Laboratory Data

SDG ID: GBD12627
Phoenix ID: BD12657

Project ID: 05.0043369.82 COMMERCIAL FOUNDRY
Client ID: A12-CEIL-4

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
PCB Wipe Extraction	Completed			12/27/12	BQ/K/E	SW-3540C

Polychlorinated Biphenyls

PCB-1016	ND	0.50	ug	12/31/12	AW	SW8082
PCB-1221	ND	0.50	ug	12/31/12	AW	SW8082
PCB-1232	ND	0.50	ug	12/31/12	AW	SW8082
PCB-1242	ND	0.50	ug	12/31/12	AW	SW8082
PCB-1248	ND	0.50	ug	12/31/12	AW	SW8082
PCB-1254	ND	0.50	ug	12/31/12	AW	SW8082
PCB-1260	ND	0.50	ug	12/31/12	AW	SW8082
PCB-1262	ND	0.50	ug	12/31/12	AW	SW8082
PCB-1268	ND	0.50	ug	12/31/12	AW	SW8082

QA/QC Surrogates

% DCBP	78	%	12/31/12	AW	30 - 150 %
% TCMX	74	%	12/31/12	AW	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: WIPE
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/24/12 9:18
12/26/12 16:15

Laboratory Data

SDG ID: GBD12627
Phoenix ID: BD12658

Project ID: 05.0043369.82 COMMERCIAL FOUNDRY
Client ID: A12-CEIL-5

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
PCB Wipe Extraction	Completed			12/27/12	BQ/K/E	SW-3540C

Polychlorinated Biphenyls

PCB-1016	ND	0.50	ug	12/31/12	AW	SW8082
PCB-1221	ND	0.50	ug	12/31/12	AW	SW8082
PCB-1232	ND	0.50	ug	12/31/12	AW	SW8082
PCB-1242	ND	0.50	ug	12/31/12	AW	SW8082
PCB-1248	ND	0.50	ug	12/31/12	AW	SW8082
PCB-1254	ND	0.50	ug	12/31/12	AW	SW8082
PCB-1260	ND	0.50	ug	12/31/12	AW	SW8082
PCB-1262	ND	0.50	ug	12/31/12	AW	SW8082
PCB-1268	ND	0.50	ug	12/31/12	AW	SW8082

QA/QC Surrogates

% DCBP	77	%	12/31/12	AW	30 - 150 %
% TCMX	73	%	12/31/12	AW	30 - 150 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

January 03, 2013

QA/QC Data

SDG I.D.: GBD12627

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 216813, QC Sample No: BD11577 (BD12639, BD12640, BD12641)									
<u>Polychlorinated Biphenyl</u>									
PCB-1016	ND	92	83	10.3				40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	103	100	3.0				40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	89	88	86	2.3				30 - 150	30
% TCMX (Surrogate Rec)	91	92	91	1.1				30 - 150	30

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

QA/QC Batch 217139, QC Sample No: BD12627 (BD12627, BD12628, BD12629, BD12630, BD12631, BD12632, BD12633, BD12634, BD12635, BD12636, BD12637, BD12638)

Polychlorinated Biphenyls - Soil, Solid

PCB-1016	ND	73	70	4.2	94			40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	87	82	5.9	94			40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	102	110	105	4.7	124			30 - 150	30
% TCMX (Surrogate Rec)	101	105	98	6.9	106			30 - 150	30

QA/QC Batch 217200, QC Sample No: BD12642 (BD12642, BD12643, BD12644, BD12645, BD12651, BD12652, BD12653, BD12654, BD12655, BD12656, BD12657, BD12658)

Polychlorinated Biphenyl

PCB-1016	ND	97	93	4.2				40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	102	102	0.0				40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	77	85	85	0.0				30 - 150	30

QA/QC Data

SDG I.D.: GBD12627

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
% TCMX (Surrogate Rec)	80	90	84	6.9				30 - 150	30

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

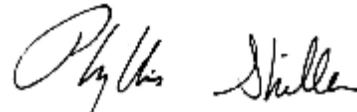
LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference



Phyllis Shiller, Laboratory Director

January 03, 2013

Thursday, January 03, 2013

Requested Criteria: None

State: CT

Sample Criteria Exceedences Report

GBD12627 - GZA-PCB

Page 1 of 1

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** GZA-PCB

Project Location: 05.0043369.82 COMMERCIAL F **Project Number:**

Laboratory Sample ID(s): BD12627, BD12628, BD12629, BD12630, BD12631, BD12632, BD12633, BD12634, BD12635, BD12636, BD12637, BD12638, BD12639, BD12640, BD12641, BD12642, BD12643, BD12644, BD12645, BD12646, BD12647, BD12648, BD12649, BD12650, BD12651, BD12652, BD12653, BD12654, BD12655, BD12656, BD12657, BD12658

Sampling Date(s): 12/24/2012

RCP Methods Used:

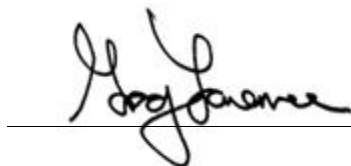
☐ 1311/1312 ☐ 6010 ☐ 7000 ☐ 7196 ☐ 7470/7471 ☐ 8081 ☐ EPH ☐ TO15
☒ 8082 ☐ 8151 ☐ 8260 ☐ 8270 ☐ ETPH ☐ 9010/9012 ☐ VPH

1.	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1a.	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1b.	EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2.	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4.	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5a.	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5b.	Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
6.	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

Note: For all questions to which the response was "No" (with the exception of question #5a, #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized
Signature:



Date: Thursday, January 03, 2013

Printed Name: Greg Lawrence

Position: Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

January 03, 2013

SDG I.D.: GBD12627

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Au-ecd3 12/28/12-1 (BD12627, BD12628, BD12629, BD12630, BD12631, BD12632, BD12633, BD12634, BD12635, BD12636, BD12638, BD12641)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 12/28/2012

Instrument: Au-ecd35 12/31/12-1 (BD12637, BD12657, BD12658)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 12/31/2012

Instrument: Au-ecd5 12/28/12-1 (BD12642, BD12643, BD12644, BD12645, BD12651, BD12652, BD12653, BD12654, BD12655, BD12656)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 12/28/2012

Instrument: Au-ecd6 12/27/12-1 (BD12640)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

January 03, 2013

SDG I.D.: GBD12627

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 12/27/2012

Instrument: Au-ecd6 12/31/12-1 (BD12639)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 12/31/2012

QC Comments: QC Batch 16813 12/20/12 (BD12639, BD12640, BD12641)

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

QC Comments: QC Batch 17200 12/27/12 (BD12642, BD12643, BD12644, BD12645, BD12651, BD12652, BD12653, BD12654, BD12655, BD12656, BD12657, BD12658)

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

QC Comments: QC Batch 17139 12/26/12 (BD12627, BD12628, BD12629, BD12630, BD12631, BD12632, BD12633, BD12634, BD12635, BD12636, BD12637, BD12638)



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

January 03, 2013

SDG I.D.: GBD12627

QC (Site Specific)

----- Sample No: BD12627, QA/QC Batch: 217139 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

----- Sample No: BD12642, QA/QC Batch: 217200 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

QC (Batch Specific)

----- Sample No: BD11577, QA/QC Batch: 216813 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: None.

Temperature Narration

The samples in this delivery group were received at 6°C.
(Note acceptance criteria is above freezing up to 6°C)



CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Cooler: Yes ☒ No ☐
Coolant: ☒ H₂O ☐ N₂

Temp 6°C Pg 2 of 3

Data Delivery:

☐ Fax #:

☒ Email: James.chilton@pge.com

Customer: GEA

Address: 655 Winding Brook Drive
Glensburg CT 06033

Project: 43364-82 Commercial Remedy

Report to:

Invoice to:

Project P.O.:

Phone #: 860 286 8900

Fax #:

Client Sample Information - Identification

Sampler's Signature

Date: 12/24/12

Matrix Code:

DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
SE=Sediment SL=Sludge S=Soil/Solid W=Wipe O=Other

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
12639	A4-Ceil-1	W	12/24/12	11:15
12640	A11-Ceil-1			0840
12641	A10-Ceil-1			1425
12642	A10-Ceil-2			1020
12643	A10-Ceil-3			1015
12644	A10-Ceil-4			1010
12645	A10-Ceil-5			0955
12646	A10-Ceil-6			1000
12647	A10-Ceil-7			1045
12648	A10-Ceil-8			1040
12649	A10-Ceil-9			1035
12650	A10-Ceil-10			1030

Analysis Request

PCBs - Methyl Siloxane

Relinquished by: Hyler Accepted by: GEA

Comments, Special Requirements or Regulations:
Detection Limit less than 0.5 ppb
* Freeze samples on hold

Date: 12/24/12 Time: 1400

RI ☐ Direct Exposure (Residential)

CI ☒ RCP Cert

MA ☐ MCP Certification

Data Format

Excel ☒ PDF ☒ GIS/Key ☐ EQUIS ☐ Other ☐

MA ☐ GW-1 ☐ GW-2 ☐ GW-3 ☐ S-1 ☐ S-2 ☐ S-3 ☐ MWRA eSMART ☐ Other ☐

CI ☐ GW Protection ☐ SW Protection ☐ GA Mobility ☐ GB Mobility ☐ Residential DEC ☐ I/C DEC ☐ Other ☐

RI ☐ GW ☐ Other ☐

Turnaround: ☐ 1 Day* ☐ 2 Days* ☐ 3 Days* ☒ Standard ☐ Other

State where samples were collected: CT

* SURCHARGE APPLIES



CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Cooler: Yes ☐ No ☒
Cofam: ☒ No ☐ N ☐
Temp: 6 °C Pg 3 of 3

Data Delivery:
☐ Fax #:
☒

Email: James.Hutton@phoenixlabs.com

Project P.O.:
Phone #: 860 286 8900
Fax #:

Project: 4336482
Report to: Jim Hutton
Invoice to:

Customer: G-214
Address: 655 Winding Brook Drive
Cheshire, CT 06033

Client Sample - Information - Identification

Sampler's Signature: [Signature]
Date: 12/24/12
Matrix Code:
DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
SE=Sediment SL=Sludge S=Soil/Solid W=Wipe O=Other

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
12651	A10-Ceil-11	W	12/24/12	1100
12652	A10-Ceil-12			1105
12653	A10-Ceil-13			1110
12654	A12-Ceil-1			0900
12655	A12-Ceil-2			0905
12656	A12-Ceil-3			0910
12657	A12-Ceil-4			0915
12658	A12-Ceil-5			0918

Analysis
Request

PCBs - Mammals

Soil VOA Vials () methanol () H2O
GL Soil container () oz
40 ml VOA Vial () As () HCl
PL As () 1250ml () 1500ml () 1000ml
PL H2SO4 () 250ml () 500ml
Bacteria Bottle

Relinquished by: [Signature]	Accepted by: [Signature]	Date: 12/24/12	Time: 1400
[Signature]	[Signature]	12/26/12	11:15
[Signature]	[Signature]	12/26/12	1615
Comments, Special Requirements or Regulations: Detection Limit less than 0.5 ppm		Turnaround: <input type="checkbox"/> 1 Day* <input type="checkbox"/> 2 Days* <input type="checkbox"/> 3 Days* <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Other	
RI <input type="checkbox"/> Direct Exposure (Residential) <input type="checkbox"/> GW <input type="checkbox"/> Other		CT <input checked="" type="checkbox"/> RCP Cert <input type="checkbox"/> GW Protection <input type="checkbox"/> SW Protection <input type="checkbox"/> GA Mobility <input type="checkbox"/> GB Mobility <input type="checkbox"/> Residential DEC <input type="checkbox"/> I/C DEC <input type="checkbox"/> Other	
MA <input type="checkbox"/> MCP Certification <input type="checkbox"/> GW-1 <input type="checkbox"/> GW-2 <input type="checkbox"/> GW-3 <input type="checkbox"/> S-1 <input type="checkbox"/> S-2 <input type="checkbox"/> S-3 <input type="checkbox"/> MWRA eSMART <input type="checkbox"/> Other		Data Format <input checked="" type="checkbox"/> Excel <input checked="" type="checkbox"/> PDF <input type="checkbox"/> GIS/Key <input type="checkbox"/> EQUIS <input type="checkbox"/> Other	
Data Package <input type="checkbox"/> Tier II Checklist <input type="checkbox"/> Full Data Package* <input type="checkbox"/> Phoenix Std Report <input type="checkbox"/> Other		State where samples were collected: CT	
* SURCHARGE APPLIES		* SURCHARGE APPLIES	

Bobbi - Phoenixlabs

From: James Hutton [james.hutton@gza.com]
Sent: Friday, December 28, 2012 10:24 AM
To: Greg - Phoenixlabs; Bobbi - Phoenixlabs
Subject: FW: Phoenix Labs - GBD12627, 05.0043369.82 COMMERCIAL FOUNDRY - COC Acknowledgement

Attachments: Sample Acknowledgement.pdf

Greg and Bobbi,

The samples noted below that begin with "AM" were misread on the chain. They should start with A14.

Also, can you expedite 24hr TAT the following samples for PCBs Manual Soxhlet?

A14-S-3(1.5-1.75)

A14-S-4(2.5-2.75)

A14-S-5(2.75-3.0)

Please let me know when these results could be provided at soonest.

Thanks

Jim Hutton

From: clientservices@phoenixlabs.com [mailto:clientservices@phoenixlabs.com]
Sent: Thursday, December 27, 2012 9:16 AM
To: James Hutton
Subject: Phoenix Labs - GBD12627, 05.0043369.82 COMMERCIAL FOUNDRY - COC Acknowledgement

James,

Delivery group GBD12627 (05.0043369.82 COMMERCIAL FOUNDRY) has been logged in for the following samples:

Phoenix Id	Client Id
BD12627	AM-S-3 (1.5-1.75 FT)
BD12628	AM-S-4 (2.5-2.75 FT)
BD12629	AM-S-5 (2.75-3.0 FT)
BD12630	AM-S-6 (2.5-2.75 FT)
BD12631	AM-S-7 (2.5-2.75 FT)
BD12632	AM-S-8 (2.75-3 FT)
BD12633	AM-S-9 (2.5-2.75 FT)
BD12634	AM-S-10 (1.5-1.75 FT)
BD12635	AM-S-11 (2.75-3.0 FT)
BD12636	AM-S-12 (2.75-3.0 FT)
BD12637	AM-S-13 (3.5-3.75 FT)
BD12638	ORANGEBORING PIPE
BD12639	A14-CEIL-1



Thursday, January 03, 2013

Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Project ID: 05.0043369.82 COMMERCIAL FOUNDRY
Sample ID#s: BD12660, BD12663 - BD12673, BD12675, BD12678 - BD12679,
BD12681 - BD12682, BD12684 - BD12686

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/22/12 8:50
12/26/12 16:15

Laboratory Data

SDG ID: GBD12659
Phoenix ID: BD12660

Project ID: 05.0043369.82 COMMERCIAL FOUNDRY
Client ID: A4-S-2 (0-2 FT)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	90		%	12/26/12	jl	E160.3
Extraction of CT ETPH	Completed			12/26/12	BJ/V	3545
Extraction for PCB	Completed			12/27/12	BQ/K/E	SW3540C

TPH by GC (Extractable Products)

Ext. Petroleum HC	23	11	mg/Kg	12/28/12	KCA	CT ETPH/8015
Identification	**		mg/Kg	12/28/12	KCA	CT ETPH/8015

QA/QC Surrogates

% n-Pentacosane	86		%	12/28/12	KCA	50 - 150 %
-----------------	----	--	---	----------	-----	------------

PCB (Soxhlet)

PCB-1016	ND	0.36	mg/kg	12/28/12	AW	3540C/8082
PCB-1221	ND	0.36	mg/kg	12/28/12	AW	3540C/8082
PCB-1232	ND	0.36	mg/kg	12/28/12	AW	3540C/8082
PCB-1242	ND	0.36	mg/kg	12/28/12	AW	3540C/8082
PCB-1248	ND	0.36	mg/kg	12/28/12	AW	3540C/8082
PCB-1254	ND	0.36	mg/kg	12/28/12	AW	3540C/8082
PCB-1260	ND	0.36	mg/kg	12/28/12	AW	3540C/8082
PCB-1262	ND	0.36	mg/kg	12/28/12	AW	3540C/8082
PCB-1268	ND	0.36	mg/kg	12/28/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	95		%	12/28/12	AW	30 - 150 %
% TCMX	95		%	12/28/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

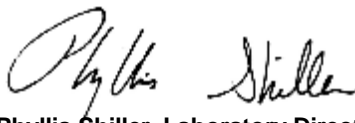
Comments:

**Petroleum hydrocarbon chromatogram contains individual discrete hydrocarbon peaks in the range of C18 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

12/22/12 9:15
12/26/12 16:15

Time

Laboratory Data

SDG ID: GBD12659
Phoenix ID: BD12663

Project ID: 05.0043369.82 COMMERCIAL FOUNDRY
Client ID: A4-S-5 (0-2 FT)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	86		%	12/26/12	jl	E160.3
Extraction of CT ETPH	Completed			12/26/12	BJ/V	3545
Extraction for PCB	Completed			12/27/12	BQ/K/E	SW3540C

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	12	mg/Kg	12/28/12	KCA	CT ETPH/8015
Identification	ND		mg/Kg	12/28/12	KCA	CT ETPH/8015

QA/QC Surrogates

% n-Pentacosane	96		%	12/28/12	KCA	50 - 150 %
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PCB (Soxhlet)

PCB-1016	ND	0.38	mg/kg	12/28/12	AW	3540C/8082
PCB-1221	ND	0.38	mg/kg	12/28/12	AW	3540C/8082
PCB-1232	ND	0.38	mg/kg	12/28/12	AW	3540C/8082
PCB-1242	ND	0.38	mg/kg	12/28/12	AW	3540C/8082
PCB-1248	ND	0.38	mg/kg	12/28/12	AW	3540C/8082
PCB-1254	ND	0.38	mg/kg	12/28/12	AW	3540C/8082
PCB-1260	ND	0.38	mg/kg	12/28/12	AW	3540C/8082
PCB-1262	ND	0.38	mg/kg	12/28/12	AW	3540C/8082
PCB-1268	ND	0.38	mg/kg	12/28/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	110		%	12/28/12	AW	30 - 150 %
% TCMX	110		%	12/28/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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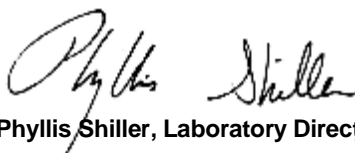
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/22/12 9:20
12/26/12 16:15

Laboratory Data

SDG ID: GBD12659
Phoenix ID: BD12664

Project ID: 05.0043369.82 COMMERCIAL FOUNDRY
Client ID: A4-S-6 (0-2 FT)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	91		%	12/26/12	jl	E160.3
Extraction of CT ETPH	Completed			12/26/12	BJ/V	3545
Extraction for PCB	Completed			12/27/12	BQ/K/E	SW3540C

TPH by GC (Extractable Products)

Ext. Petroleum HC	12	11	mg/Kg	12/28/12	KCA	CT ETPH/8015
Identification	**		mg/Kg	12/28/12	KCA	CT ETPH/8015

QA/QC Surrogates

% n-Pentacosane	101		%	12/28/12	KCA	50 - 150 %
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PCB (Soxhlet)

PCB-1016	ND	0.36	mg/kg	12/28/12	AW	3540C/8082
PCB-1221	ND	0.36	mg/kg	12/28/12	AW	3540C/8082
PCB-1232	ND	0.36	mg/kg	12/28/12	AW	3540C/8082
PCB-1242	ND	0.36	mg/kg	12/28/12	AW	3540C/8082
PCB-1248	ND	0.36	mg/kg	12/28/12	AW	3540C/8082
PCB-1254	ND	0.36	mg/kg	12/28/12	AW	3540C/8082
PCB-1260	ND	0.36	mg/kg	12/28/12	AW	3540C/8082
PCB-1262	ND	0.36	mg/kg	12/28/12	AW	3540C/8082
PCB-1268	ND	0.36	mg/kg	12/28/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	116		%	12/28/12	AW	30 - 150 %
% TCMX	110		%	12/28/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

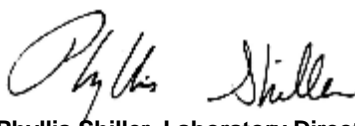
Comments:

**Petroleum hydrocarbon chromatogram contains individual discrete hydrocarbon peaks in the range of C20 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/22/12 9:40
12/26/12 16:15

Laboratory Data

SDG ID: GBD12659
Phoenix ID: BD12665

Project ID: 05.0043369.82 COMMERCIAL FOUNDRY
Client ID: A3-S-1 (0-2 FT)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	94		%	12/26/12	jl	E160.3
Extraction of CT ETPH	Completed			12/26/12	BJ/V	3545

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	10	mg/Kg	12/28/12	KCA	CT ETPH/8015
Identification	ND		mg/Kg	12/28/12	KCA	CT ETPH/8015

QA/QC Surrogates

% n-Pentacosane	66		%	12/28/12	KCA	50 - 150 %
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/22/12 9:50
12/26/12 16:15

Laboratory Data

SDG ID: GBD12659
Phoenix ID: BD12666

Project ID: 05.0043369.82 COMMERCIAL FOUNDRY
Client ID: A3-S-2 (0-2 FT)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	96		%	12/26/12	jl	E160.3
Extraction of CT ETPH	Completed			12/26/12	BJ/V	3545

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	10	mg/Kg	12/28/12	KCA	CT ETPH/8015
Identification	ND		mg/Kg	12/28/12	KCA	CT ETPH/8015

QA/QC Surrogates

% n-Pentacosane	88		%	12/28/12	KCA	50 - 150 %
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/22/12 10:00
12/26/12 16:15

Laboratory Data

SDG ID: GBD12659
Phoenix ID: BD12667

Project ID: 05.0043369.82 COMMERCIAL FOUNDRY
Client ID: A3-S-3 (0-2 FT)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	95		%	12/26/12	jl	E160.3
Extraction of CT ETPH	Completed			12/26/12	BJ/V	3545

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	10	mg/Kg	12/28/12	KCA	CT ETPH/8015
Identification	ND		mg/Kg	12/28/12	KCA	CT ETPH/8015

QA/QC Surrogates

% n-Pentacosane	58		%	12/28/12	KCA	50 - 150 %
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/22/12 10:05
12/26/12 16:15

Laboratory Data

SDG ID: GBD12659
Phoenix ID: BD12668

Project ID: 05.0043369.82 COMMERCIAL FOUNDRY
Client ID: A3-S-4 (0-2 FT)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	93		%	12/26/12	jl	E160.3
Soil Extraction SVOA BN	Completed			12/26/12	BJ/V	SW3545
Extraction of CT ETPH	Completed			12/26/12	BJ/V	3545
Extraction for PCB	Completed			12/27/12	BQ/K/E	SW3540C

TPH by GC (Extractable Products)

Ext. Petroleum HC	6200	210	mg/Kg	12/29/12	JRB	CT ETPH/8015
Identification	**		mg/Kg	12/29/12	JRB	CT ETPH/8015

QA/QC Surrogates

% n-Pentacosane	Diluted Out		%	12/29/12	JRB	50 - 150 %
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PCB (Soxhlet)

PCB-1016	ND	0.36	mg/kg	12/31/12	AW	3540C/8082
PCB-1221	ND	0.36	mg/kg	12/31/12	AW	3540C/8082
PCB-1232	ND	0.36	mg/kg	12/31/12	AW	3540C/8082
PCB-1242	ND	0.36	mg/kg	12/31/12	AW	3540C/8082
PCB-1248	ND	0.36	mg/kg	12/31/12	AW	3540C/8082
PCB-1254	ND	0.36	mg/kg	12/31/12	AW	3540C/8082
PCB-1260	ND	0.36	mg/kg	12/31/12	AW	3540C/8082
PCB-1262	ND	0.36	mg/kg	12/31/12	AW	3540C/8082
PCB-1268	ND	0.36	mg/kg	12/31/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	112		%	12/31/12	AW	30 - 150 %
% TCMX	86		%	12/31/12	AW	30 - 150 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	250	ug/Kg	12/27/12	DD	SW 8270
Acenaphthene	ND	250	ug/Kg	12/27/12	DD	SW 8270
Acenaphthylene	ND	250	ug/Kg	12/27/12	DD	SW 8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Anthracene	ND	250	ug/Kg	12/27/12	DD	SW 8270
Benz(a)anthracene	ND	250	ug/Kg	12/27/12	DD	SW 8270
Benzo(a)pyrene	ND	250	ug/Kg	12/27/12	DD	SW 8270
Benzo(b)fluoranthene	ND	250	ug/Kg	12/27/12	DD	SW 8270
Benzo(ghi)perylene	ND	250	ug/Kg	12/27/12	DD	SW 8270
Benzo(k)fluoranthene	ND	250	ug/Kg	12/27/12	DD	SW 8270
Chrysene	ND	250	ug/Kg	12/27/12	DD	SW 8270
Dibenz(a,h)anthracene	ND	250	ug/Kg	12/27/12	DD	SW 8270
Fluoranthene	ND	250	ug/Kg	12/27/12	DD	SW 8270
Fluorene	ND	250	ug/Kg	12/27/12	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	12/27/12	DD	SW 8270
Naphthalene	ND	250	ug/Kg	12/27/12	DD	SW 8270
Phenanthrene	ND	250	ug/Kg	12/27/12	DD	SW 8270
Pyrene	ND	250	ug/Kg	12/27/12	DD	SW 8270
<u>QA/QC Surrogates</u>						
% 2-Fluorobiphenyl	81		%	12/27/12	DD	30 - 130 %
% Nitrobenzene-d5	81		%	12/27/12	DD	30 - 130 %
% Terphenyl-d14	33		%	12/27/12	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

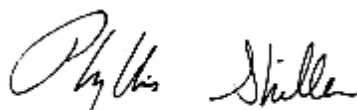
Comments:

**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C14 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/22/12 10:20
12/26/12 16:15

Laboratory Data

SDG ID: GBD12659
Phoenix ID: BD12669

Project ID: 05.0043369.82 COMMERCIAL FOUNDRY
Client ID: A3-S-4 (2-4 FT)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	94		%	12/26/12	jl	E160.3
Soil Extraction SVOA BN	Completed			12/26/12	BJ/V	SW3545
Extraction of CT ETPH	Completed			12/26/12	BJ/V	3545
Extraction for PCB	Completed			12/27/12	BQ/K/E	SW3540C

TPH by GC (Extractable Products)

Ext. Petroleum HC	4700	210	mg/Kg	12/29/12	JRB	CT ETPH/8015
Identification	**		mg/Kg	12/29/12	JRB	CT ETPH/8015

QA/QC Surrogates

% n-Pentacosane	Diluted Out		%	12/29/12	JRB	50 - 150 %
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PCB (Soxhlet)

PCB-1016	ND	0.35	mg/kg	12/31/12	AW	3540C/8082
PCB-1221	ND	0.35	mg/kg	12/31/12	AW	3540C/8082
PCB-1232	ND	0.35	mg/kg	12/31/12	AW	3540C/8082
PCB-1242	ND	0.35	mg/kg	12/31/12	AW	3540C/8082
PCB-1248	ND	0.35	mg/kg	12/31/12	AW	3540C/8082
PCB-1254	ND	0.35	mg/kg	12/31/12	AW	3540C/8082
PCB-1260	ND	0.35	mg/kg	12/31/12	AW	3540C/8082
PCB-1262	ND	0.35	mg/kg	12/31/12	AW	3540C/8082
PCB-1268	ND	0.35	mg/kg	12/31/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	109		%	12/31/12	AW	30 - 150 %
% TCMX	89		%	12/31/12	AW	30 - 150 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	250	ug/Kg	12/27/12	DD	SW 8270
Acenaphthene	ND	250	ug/Kg	12/27/12	DD	SW 8270
Acenaphthylene	ND	250	ug/Kg	12/27/12	DD	SW 8270

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Anthracene	ND	250	ug/Kg	12/27/12	DD	SW 8270
Benz(a)anthracene	ND	250	ug/Kg	12/27/12	DD	SW 8270
Benzo(a)pyrene	ND	250	ug/Kg	12/27/12	DD	SW 8270
Benzo(b)fluoranthene	ND	250	ug/Kg	12/27/12	DD	SW 8270
Benzo(ghi)perylene	ND	250	ug/Kg	12/27/12	DD	SW 8270
Benzo(k)fluoranthene	ND	250	ug/Kg	12/27/12	DD	SW 8270
Chrysene	ND	250	ug/Kg	12/27/12	DD	SW 8270
Dibenz(a,h)anthracene	ND	250	ug/Kg	12/27/12	DD	SW 8270
Fluoranthene	ND	250	ug/Kg	12/27/12	DD	SW 8270
Fluorene	ND	250	ug/Kg	12/27/12	DD	SW 8270
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	12/27/12	DD	SW 8270
Naphthalene	ND	250	ug/Kg	12/27/12	DD	SW 8270
Phenanthrene	ND	250	ug/Kg	12/27/12	DD	SW 8270
Pyrene	ND	250	ug/Kg	12/27/12	DD	SW 8270
<u>QA/QC Surrogates</u>						
% 2-Fluorobiphenyl	83		%	12/27/12	DD	30 - 130 %
% Nitrobenzene-d5	83		%	12/27/12	DD	30 - 130 %
% Terphenyl-d14	42		%	12/27/12	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

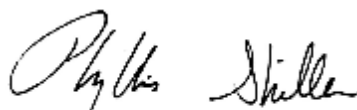
Comments:

**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C14 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/22/12 10:15
12/26/12 16:15

Laboratory Data

SDG ID: GBD12659
Phoenix ID: BD12670

Project ID: 05.0043369.82 COMMERCIAL FOUNDRY
Client ID: A3-S-5 (0-2 FT)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	96		%	12/26/12	jl	E160.3
Extraction of CT ETPH	Completed			12/26/12	BJ/V	3545

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	10	mg/Kg	12/28/12	KCA	CT ETPH/8015
Identification	ND		mg/Kg	12/28/12	KCA	CT ETPH/8015

QA/QC Surrogates

% n-Pentacosane	86		%	12/28/12	KCA	50 - 150 %
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/22/12 10:25
12/26/12 16:15

Laboratory Data

SDG ID: GBD12659
Phoenix ID: BD12671

Project ID: 05.0043369.82 COMMERCIAL FOUNDRY
Client ID: A3-S-6 (0-2 FT)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	94		%	12/26/12	jl	E160.3
Extraction of CT ETPH	Completed			12/26/12	BJ/V	3545
Extraction for PCB	Completed			12/27/12	BQ/K/E	SW3540C

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	11	mg/Kg	12/28/12	KCA	CT ETPH/8015
Identification	ND		mg/Kg	12/28/12	KCA	CT ETPH/8015

QA/QC Surrogates

% n-Pentacosane	64		%	12/28/12	KCA	50 - 150 %
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PCB (Soxhlet)

PCB-1016	ND	0.35	mg/kg	12/31/12	AW	3540C/8082
PCB-1221	ND	0.35	mg/kg	12/31/12	AW	3540C/8082
PCB-1232	ND	0.35	mg/kg	12/31/12	AW	3540C/8082
PCB-1242	ND	0.35	mg/kg	12/31/12	AW	3540C/8082
PCB-1248	ND	0.35	mg/kg	12/31/12	AW	3540C/8082
PCB-1254	ND	0.35	mg/kg	12/31/12	AW	3540C/8082
PCB-1260	ND	0.35	mg/kg	12/31/12	AW	3540C/8082
PCB-1262	ND	0.35	mg/kg	12/31/12	AW	3540C/8082
PCB-1268	ND	0.35	mg/kg	12/31/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	98		%	12/31/12	AW	30 - 150 %
% TCMX	90		%	12/31/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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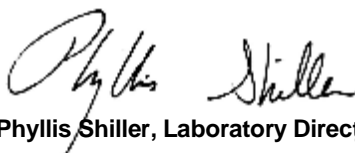
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/22/12 10:30
12/26/12 16:15

Laboratory Data

SDG ID: GBD12659
Phoenix ID: BD12672

Project ID: 05.0043369.82 COMMERCIAL FOUNDRY
Client ID: A3-S-6 (2-4 FT)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	94		%	12/26/12	jl	E160.3
Extraction of CT ETPH	Completed			12/26/12	BJ/V	3545
Extraction for PCB	Completed			12/27/12	BQ/K/E	SW3540C

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	10	mg/Kg	12/28/12	KCA	CT ETPH/8015
Identification	ND		mg/Kg	12/28/12	KCA	CT ETPH/8015

QA/QC Surrogates

% n-Pentacosane	96		%	12/28/12	KCA	50 - 150 %
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PCB (Soxhlet)

PCB-1016	ND	0.35	mg/kg	12/28/12	AW	3540C/8082
PCB-1221	ND	0.35	mg/kg	12/28/12	AW	3540C/8082
PCB-1232	ND	0.35	mg/kg	12/28/12	AW	3540C/8082
PCB-1242	ND	0.35	mg/kg	12/28/12	AW	3540C/8082
PCB-1248	ND	0.35	mg/kg	12/28/12	AW	3540C/8082
PCB-1254	ND	0.35	mg/kg	12/28/12	AW	3540C/8082
PCB-1260	ND	0.35	mg/kg	12/28/12	AW	3540C/8082
PCB-1262	ND	0.35	mg/kg	12/28/12	AW	3540C/8082
PCB-1268	ND	0.35	mg/kg	12/28/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	102		%	12/28/12	AW	30 - 150 %
% TCMX	89		%	12/28/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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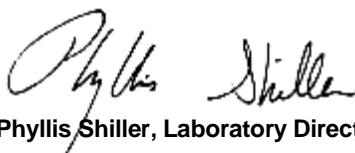
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/22/12 10:50
12/26/12 16:15

Laboratory Data

SDG ID: GBD12659
Phoenix ID: BD12673

Project ID: 05.0043369.82 COMMERCIAL FOUNDRY
Client ID: A3-S-7 (0-2 FT)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	95		%	12/26/12	jl	E160.3
Field Extraction	Completed			12/22/12		SW5035

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
1,1,1-Trichloroethane	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	12/27/12	R/P	SW8260
1,1,2-Trichloroethane	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
1,1-Dichloroethane	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
1,1-Dichloroethene	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
1,1-Dichloropropene	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
1,2,3-Trichlorobenzene	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
1,2,3-Trichloropropane	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
1,2,4-Trichlorobenzene	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
1,2,4-Trimethylbenzene	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
1,2-Dibromo-3-chloropropane	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
1,2-Dibromoethane	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
1,2-Dichlorobenzene	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
1,2-Dichloroethane	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
1,2-Dichloropropane	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
1,3,5-Trimethylbenzene	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
1,3-Dichlorobenzene	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
1,3-Dichloropropane	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
1,4-Dichlorobenzene	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
2,2-Dichloropropane	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
2-Chlorotoluene	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
2-Hexanone	ND	25	ug/Kg	12/27/12	R/P	SW8260
2-Isopropyltoluene	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
4-Chlorotoluene	ND	5.1	ug/Kg	12/27/12	R/P	SW8260

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	25	ug/Kg	12/27/12	R/P	SW8260
Acetone	ND	100	ug/Kg	12/27/12	R/P	SW8260
Acrylonitrile	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
Benzene	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
Bromobenzene	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
Bromochloromethane	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
Bromodichloromethane	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
Bromoform	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
Bromomethane	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
Carbon Disulfide	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
Carbon tetrachloride	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
Chlorobenzene	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
Chloroethane	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
Chloroform	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
Chloromethane	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
cis-1,2-Dichloroethene	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
cis-1,3-Dichloropropene	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
Dibromochloromethane	ND	3.0	ug/Kg	12/27/12	R/P	SW8260
Dibromomethane	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
Dichlorodifluoromethane	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
Ethylbenzene	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
Hexachlorobutadiene	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
Isopropylbenzene	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
m&p-Xylene	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	12/27/12	R/P	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	12/27/12	R/P	SW8260
Methylene chloride	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
Naphthalene	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
n-Butylbenzene	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
n-Propylbenzene	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
o-Xylene	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
p-Isopropyltoluene	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
sec-Butylbenzene	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
Styrene	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
tert-Butylbenzene	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
Tetrachloroethene	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	12/27/12	R/P	SW8260
Toluene	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
Total Xylenes	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
trans-1,2-Dichloroethene	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
trans-1,3-Dichloropropene	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	12/27/12	R/P	SW8260
Trichloroethene	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
Trichlorofluoromethane	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
Trichlorotrifluoroethane	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
Vinyl chloride	ND	5.1	ug/Kg	12/27/12	R/P	SW8260
<u>QA/QC Surrogates</u>						
% 1,2-dichlorobenzene-d4	99		%	12/27/12	R/P	70 - 130 %
% Bromofluorobenzene	104		%	12/27/12	R/P	70 - 130 %
% Dibromofluoromethane	96		%	12/27/12	R/P	70 - 130 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
% Toluene-d8	99		%	12/27/12	R/P	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/22/12 11:12
12/26/12 16:15

Laboratory Data

SDG ID: GBD12659
Phoenix ID: BD12675

Project ID: 05.0043369.82 COMMERCIAL FOUNDRY
Client ID: A3-S-9 (0-6 IN)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	94		%	12/26/12	jl	E160.3
Extraction of CT ETPH	Completed			12/26/12	BJ/V	3545

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	10	mg/Kg	12/28/12	KCA	CT ETPH/8015
Identification	ND		mg/Kg	12/28/12	KCA	CT ETPH/8015

QA/QC Surrogates

% n-Pentacosane	109		%	12/28/12	KCA	50 - 150 %
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



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587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/22/12 11:29
12/26/12 16:15

Laboratory Data

SDG ID: GBD12659
Phoenix ID: BD12678

Project ID: 05.0043369.82 COMMERCIAL FOUNDRY
Client ID: A3-S-12 (0-6 IN)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	92		%	12/26/12	jl	E160.3
Extraction of CT ETPH	Completed			12/26/12	BJ/V	3545

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	10	mg/Kg	12/28/12	KCA	CT ETPH/8015
Identification	ND		mg/Kg	12/28/12	KCA	CT ETPH/8015

QA/QC Surrogates

% n-Pentacosane	75		%	12/28/12	KCA	50 - 150 %
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/22/12 11:35
12/26/12 16:15

Laboratory Data

SDG ID: GBD12659
Phoenix ID: BD12679

Project ID: 05.0043369.82 COMMERCIAL FOUNDRY
Client ID: A3-S-13 (0-6 IN)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	92		%	12/26/12	jl	E160.3
Extraction of CT ETPH	Completed			12/26/12	BJ/V	3545

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	11	mg/Kg	12/28/12	KCA	CT ETPH/8015
Identification	ND		mg/Kg	12/28/12	KCA	CT ETPH/8015

QA/QC Surrogates

% n-Pentacosane	77		%	12/28/12	KCA	50 - 150 %
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/22/12 13:30
12/26/12 16:15

Laboratory Data

SDG ID: GBD12659
Phoenix ID: BD12681

Project ID: 05.0043369.82 COMMERCIAL FOUNDRY
Client ID: A1-S-2 (0-6 IN)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	91		%	12/26/12	jl	E160.3
Extraction of CT ETPH	Completed			12/26/12	BJ/V	3545

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	11	mg/Kg	12/28/12	KCA	CT ETPH/8015
Identification	ND		mg/Kg	12/28/12	KCA	CT ETPH/8015

QA/QC Surrogates

% n-Pentacosane	60		%	12/28/12	KCA	50 - 150 %
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/22/12 13:40
12/26/12 16:15

Laboratory Data

SDG ID: GBD12659
Phoenix ID: BD12682

Project ID: 05.0043369.82 COMMERCIAL FOUNDRY
Client ID: A1-S-3 (0-6 IN)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	88		%	12/26/12	jl	E160.3
Extraction of CT ETPH	Completed			12/26/12	BJ/V	3545

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	11	mg/Kg	12/28/12	KCA	CT ETPH/8015
Identification	ND		mg/Kg	12/28/12	KCA	CT ETPH/8015

QA/QC Surrogates

% n-Pentacosane	68		%	12/28/12	KCA	50 - 150 %
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/22/12 14:15
12/26/12 16:15

Laboratory Data

SDG ID: GBD12659
Phoenix ID: BD12684

Project ID: 05.0043369.82 COMMERCIAL FOUNDRY
Client ID: A1-S-5 (0-6 IN)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	90		%	12/26/12	jl	E160.3
Extraction of CT ETPH	Completed			12/26/12	BJ/V	3545

TPH by GC (Extractable Products)

Ext. Petroleum HC	ND	11	mg/Kg	12/28/12	KCA	CT ETPH/8015
Identification	ND		mg/Kg	12/28/12	KCA	CT ETPH/8015

QA/QC Surrogates

% n-Pentacosane	80		%	12/28/12	KCA	50 - 150 %
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: 24 Hour
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/22/12 13:35
12/26/12 16:15

Laboratory Data

SDG ID: GBD12659
Phoenix ID: BD12685

Project ID: 05.0043369.82 COMMERCIAL FOUNDRY
Client ID: A14-S-1 (2.5-2.75 FT)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	86		%	12/26/12	jl	E160.3
Extraction for PCB	Completed			12/26/12	BQ/K/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.38	mg/kg	12/27/12	AW	3540C/8082
PCB-1221	ND	0.38	mg/kg	12/27/12	AW	3540C/8082
PCB-1232	ND	0.38	mg/kg	12/27/12	AW	3540C/8082
PCB-1242	ND	0.38	mg/kg	12/27/12	AW	3540C/8082
PCB-1248	*	0.38	mg/kg	12/27/12	AW	3540C/8082
PCB-1254	ND	0.38	mg/kg	12/27/12	AW	3540C/8082
PCB-1260	ND	0.38	mg/kg	12/27/12	AW	3540C/8082
PCB-1262	ND	0.38	mg/kg	12/27/12	AW	3540C/8082
PCB-1268	ND	0.38	mg/kg	12/27/12	AW	3540C/8082
Total PCBs	0.9	0.38	mg/kg	12/27/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	78	%	12/27/12	AW	30 - 150 %
% TCMX	79	%	12/27/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

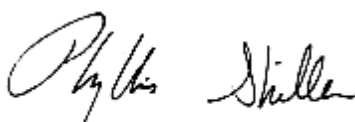
Comments:

* For PCBs, as per section 11.9.3, when weathering of PCBs is present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles aroclor 1248.

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: 24 Hour
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/22/12 13:40
12/26/12 16:15

Laboratory Data

SDG ID: GBD12659
Phoenix ID: BD12686

Project ID: 05.0043369.82 COMMERCIAL FOUNDRY
Client ID: A14-S-2 (2.5-2.75 FT)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	84		%	12/26/12	jl	E160.3
Extraction for PCB	Completed			12/26/12	BQ/K/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.39	mg/kg	12/27/12	AW	3540C/8082
PCB-1221	ND	0.39	mg/kg	12/27/12	AW	3540C/8082
PCB-1232	ND	0.39	mg/kg	12/27/12	AW	3540C/8082
PCB-1242	ND	0.39	mg/kg	12/27/12	AW	3540C/8082
PCB-1248	ND	0.39	mg/kg	12/27/12	AW	3540C/8082
PCB-1254	ND	0.39	mg/kg	12/27/12	AW	3540C/8082
PCB-1260	ND	0.39	mg/kg	12/27/12	AW	3540C/8082
PCB-1262	ND	0.39	mg/kg	12/27/12	AW	3540C/8082
PCB-1268	ND	0.39	mg/kg	12/27/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	91	%	12/27/12	AW	30 - 150 %
% TCMX	82	%	12/27/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

January 03, 2013

QA/QC Data

SDG I.D.: GBD12659

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 217244, QC Sample No: BD12006 (BD12673)									
Volatiles - Soil									
1,1,1,2-Tetrachloroethane	ND	108	104	3.8	100	94	6.2	70 - 130	30
1,1,1-Trichloroethane	ND	105	104	1.0	104	95	9.0	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	96	95	1.0	94	99	5.2	70 - 130	30
1,1,2-Trichloroethane	ND	107	105	1.9	100	101	1.0	70 - 130	30
1,1-Dichloroethane	ND	105	103	1.9	98	92	6.3	70 - 130	30
1,1-Dichloroethene	ND	101	98	3.0	90	81	10.5	70 - 130	30
1,1-Dichloropropene	ND	104	101	2.9	104	93	11.2	70 - 130	30
1,2,3-Trichlorobenzene	ND	103	100	3.0	101	103	2.0	70 - 130	30
1,2,3-Trichloropropane	ND	106	104	1.9	95	101	6.1	70 - 130	30
1,2,4-Trichlorobenzene	ND	98	97	1.0	97	99	2.0	70 - 130	30
1,2,4-Trimethylbenzene	ND	107	104	2.8	101	97	4.0	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	105	105	0.0	96	101	5.1	70 - 130	30
1,2-Dibromoethane	ND	104	102	1.9	104	104	0.0	70 - 130	30
1,2-Dichlorobenzene	ND	104	102	1.9	99	98	1.0	70 - 130	30
1,2-Dichloroethane	ND	104	101	2.9	111	110	0.9	70 - 130	30
1,2-Dichloropropane	ND	105	102	2.9	97	93	4.2	70 - 130	30
1,3,5-Trimethylbenzene	ND	106	102	3.8	103	97	6.0	70 - 130	30
1,3-Dichlorobenzene	ND	105	102	2.9	98	98	0.0	70 - 130	30
1,3-Dichloropropane	ND	105	103	1.9	102	103	1.0	70 - 130	30
1,4-Dichlorobenzene	ND	103	101	2.0	97	96	1.0	70 - 130	30
2,2-Dichloropropane	ND	104	102	1.9	88	79	10.8	70 - 130	30
2-Chlorotoluene	ND	108	104	3.8	100	97	3.0	70 - 130	30
2-Hexanone	ND	102	103	1.0	87	96	9.8	70 - 130	30
2-Isopropyltoluene	ND	104	101	2.9	102	98	4.0	70 - 130	30
4-Chlorotoluene	ND	102	98	4.0	98	96	2.1	70 - 130	30
4-Methyl-2-pentanone	ND	101	103	2.0	86	95	9.9	70 - 130	30
Acetone	ND	102	102	0.0	56	61	8.5	70 - 130	30 m
Acrylonitrile	ND	97	100	3.0	90	98	8.5	70 - 130	30
Benzene	ND	104	100	3.9	97	90	7.5	70 - 130	30
Bromobenzene	ND	105	102	2.9	103	102	1.0	70 - 130	30
Bromochloromethane	ND	107	103	3.8	99	97	2.0	70 - 130	30
Bromodichloromethane	ND	109	105	3.7	101	96	5.1	70 - 130	30
Bromoform	ND	108	109	0.9	86	85	1.2	70 - 130	30
Bromomethane	ND	101	97	4.0	68	62	9.2	70 - 130	30 m
Carbon Disulfide	ND	97	95	2.1	79	69	13.5	70 - 130	30 m
Carbon tetrachloride	ND	104	100	3.9	95	82	14.7	70 - 130	30
Chlorobenzene	ND	106	102	3.8	100	95	5.1	70 - 130	30
Chloroethane	ND	113	110	2.7	49	42	15.4	70 - 130	30 m
Chloroform	ND	106	101	4.8	103	97	6.0	70 - 130	30
Chloromethane	ND	101	98	3.0	87	77	12.2	70 - 130	30
cis-1,2-Dichloroethene	ND	106	102	3.8	96	91	5.3	70 - 130	30

QA/QC Data

SDG I.D.: GBD12659

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
cis-1,3-Dichloropropene	ND	106	104	1.9	92	88	4.4	70 - 130	30
Dibromochloromethane	ND	111	108	2.7	100	96	4.1	70 - 130	30
Dibromomethane	ND	107	104	2.8	102	101	1.0	70 - 130	30
Dichlorodifluoromethane	ND	109	106	2.8	43	<40	NC	70 - 130	30
Ethylbenzene	ND	105	101	3.9	100	94	6.2	70 - 130	30
Hexachlorobutadiene	ND	100	97	3.0	111	107	3.7	70 - 130	30
Isopropylbenzene	ND	109	104	4.7	100	94	6.2	70 - 130	30
m&p-Xylene	ND	106	102	3.8	96	91	5.3	70 - 130	30
Methyl ethyl ketone	ND	94	95	1.1	70	79	12.1	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	99	95	4.1	108	111	2.7	70 - 130	30
Methylene chloride	ND	90	89	1.1	75	73	2.7	70 - 130	30
Naphthalene	ND	100	101	1.0	97	103	6.0	70 - 130	30
n-Butylbenzene	ND	104	101	2.9	96	92	4.3	70 - 130	30
n-Propylbenzene	ND	111	106	4.6	99	94	5.2	70 - 130	30
o-Xylene	ND	106	101	4.8	99	93	6.3	70 - 130	30
p-Isopropyltoluene	ND	107	105	1.9	101	96	5.1	70 - 130	30
sec-Butylbenzene	ND	105	102	2.9	98	93	5.2	70 - 130	30
Styrene	ND	102	99	3.0	98	93	5.2	70 - 130	30
tert-Butylbenzene	ND	110	105	4.7	105	99	5.9	70 - 130	30
Tetrachloroethene	ND	106	102	3.8	105	99	5.9	70 - 130	30
Tetrahydrofuran (THF)	ND	96	99	3.1	83	92	10.3	70 - 130	30
Toluene	ND	104	102	1.9	98	92	6.3	70 - 130	30
trans-1,2-Dichloroethene	ND	108	103	4.7	92	85	7.9	70 - 130	30
trans-1,3-Dichloropropene	ND	105	103	1.9	90	86	4.5	70 - 130	30
trans-1,4-dichloro-2-butene	ND	105	105	0.0	63	66	4.7	70 - 130	30
Trichloroethene	ND	114	110	3.6	102	94	8.2	70 - 130	30
Trichlorofluoromethane	ND	106	103	2.9	<40	<40	NC	70 - 130	30
Trichlorotrifluoroethane	ND	102	100	2.0	102	94	8.2	70 - 130	30
Vinyl chloride	ND	100	98	2.0	82	42	64.5	70 - 130	30
% 1,2-dichlorobenzene-d4	99	100	100	0.0	99	101	2.0	70 - 130	30
% Bromofluorobenzene	100	99	99	0.0	104	105	1.0	70 - 130	30
% Dibromofluoromethane	94	99	99	0.0	97	98	1.0	70 - 130	30
% Toluene-d8	101	100	100	0.0	99	99	0.0	70 - 130	30

Comment:

Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 217059, QC Sample No: BD12465 (BD12660, BD12663, BD12664, BD12665, BD12666, BD12667, BD12668, BD12669, BD12670, BD12671)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum HC	ND	81	72	11.8				50 - 150	30
% n-Pentacosane	87	86	79	8.5				50 - 150	30

QA/QC Batch 217058, QC Sample No: BD12467 (BD12668, BD12669)

Polynuclear Aromatic HC - Soil

2-Methylnaphthalene	ND	62	62	0.0	67	69	2.9	30 - 130	30
Acenaphthene	ND	77	78	1.3	84	85	1.2	30 - 130	30
Acenaphthylene	ND	66	66	0.0	71	72	1.4	30 - 130	30
Anthracene	ND	79	79	0.0	86	88	2.3	30 - 130	30
Benz(a)anthracene	ND	84	83	1.2	93	96	3.2	30 - 130	30
Benzo(a)pyrene	ND	76	76	0.0	82	85	3.6	30 - 130	30
Benzo(b)fluoranthene	ND	81	83	2.4	90	93	3.3	30 - 130	30
Benzo(ghi)perylene	ND	76	73	4.0	82	85	3.6	30 - 130	30
Benzo(k)fluoranthene	ND	77	81	5.1	87	88	1.1	30 - 130	30
Chrysene	ND	84	84	0.0	92	94	2.2	30 - 130	30

QA/QC Data

SDG I.D.: GBD12659

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Dibenz(a,h)anthracene	ND	70	70	0.0	78	80	2.5	30 - 130	30
Fluoranthene	ND	71	71	0.0	79	81	2.5	30 - 130	30
Fluorene	ND	78	78	0.0	84	87	3.5	30 - 130	30
Indeno(1,2,3-cd)pyrene	ND	72	71	1.4	80	82	2.5	30 - 130	30
Naphthalene	ND	63	64	1.6	68	70	2.9	30 - 130	30
Phenanthrene	ND	80	81	1.2	88	88	0.0	30 - 130	30
Pyrene	ND	80	81	1.2	90	91	1.1	30 - 130	30
% 2-Fluorobiphenyl	69	64	65	1.6	71	72	1.4	30 - 130	30
% Nitrobenzene-d5	62	58	56	3.5	63	64	1.6	30 - 130	30
% Terphenyl-d14	69	72	72	0.0	81	83	2.4	30 - 130	30

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 217201, QC Sample No: BD12660 (BD12660, BD12663, BD12664, BD12668, BD12669, BD12671, BD12672)

Polychlorinated Biphenyls - Soil

PCB-1016	ND	80	85	6.1	92	86	6.7	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	85	88	3.5	95	92	3.2	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	90	89	97	8.6	92	91	1.1	30 - 150	30
% TCMX (Surrogate Rec)	90	85	92	7.9	96	89	7.6	30 - 150	30

QA/QC Batch 217130, QC Sample No: BD12681 (BD12672, BD12675, BD12678, BD12679, BD12681, BD12682, BD12684)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum HC	ND	66	72	8.7	57	76	28.6	50 - 150	30
% n-Pentacosane	55	64	72	11.8	62	86	32.4	50 - 150	30

QA/QC Batch 217131, QC Sample No: BD12685 (BD12685, BD12686)

Polychlorinated Biphenyls - Soil

PCB-1016	ND	64	58	9.8	84	85	1.2	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	71	70	1.4	84	80	4.9	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	71	75	74	1.3	88	94	6.6	30 - 150	30
% TCMX (Surrogate Rec)	66	71	69	2.9	76	76	0.0	30 - 150	30

m = This parameter is outside laboratory ms/msd specified recovery limits.

r = This parameter is outside laboratory rpd specified recovery limits.

QA/QC Data

SDG I.D.: GBD12659

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

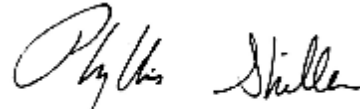
LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference



Phyllis Shiller, Laboratory Director
January 03, 2013

Thursday, January 03, 2013

Requested Criteria: GAM, RC

State: CT

Sample Criteria Exceedences Report

GBD12659 - GZA-PCB

Page 1 of 1

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BD12668	\$ETPH_SMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / GA/GAA PMC (mg/kg)	6200	210	500	500	mg/Kg
BD12668	\$ETPH_SMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	6200	210	500	500	mg/Kg
BD12669	\$ETPH_SMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / GA/GAA PMC (mg/kg)	4700	210	500	500	mg/Kg
BD12669	\$ETPH_SMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	4700	210	500	500	mg/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** GZA-PCB

Project Location: 05.0043369.82 COMMERCIAL F **Project Number:**

Laboratory Sample ID(s): BD12659, BD12660, BD12661, BD12662, BD12663, BD12664, BD12665, BD12666, BD12667, BD12668, BD12669, BD12670, BD12671, BD12672, BD12673, BD12674, BD12675, BD12676, BD12677, BD12678, BD12679, BD12680, BD12681, BD12682, BD12683, BD12684, BD12685, BD12686

Sampling Date(s): 12/22/2012

RCP Methods Used:

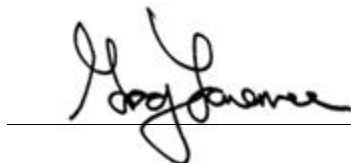
☐ 1311/1312 ☐ 6010 ☐ 7000 ☐ 7196 ☐ 7470/7471 ☐ 8081 ☐ EPH ☐ TO15
☒ 8082 ☐ 8151 ☒ 8260 ☒ 8270 ☒ ETPH ☐ 9010/9012 ☐ VPH

1.	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1a.	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1b.	EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2.	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4.	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5a.	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5b.	Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
6.	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

Note: For all questions to which the response was "No" (with the exception of question #5a, #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized
Signature:



Date: Thursday, January 03, 2013
Printed Name: Greg Lawrence
Position: Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

January 03, 2013

SDG ID.: GBD12659

8270 Semi-volatile Organics:

Only the PAH constituents are reported as requested on the chain-of-custody for sample ID's BD12668, BD12669.

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Au-fid84 12/26/12-1 (BD12660, BD12663, BD12664, BD12665, BD12666, BD12667, BD12670, BD12671, BD12672, BD12675, BD12678, BD12679, BD12681, BD12682, BD12684)

Initial Calibration (FID84 - ETPH_13) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

The daily continuing calibration standard was within method criteria of +/- 30 %D.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers: none

Printed Name Michael Hahn
Position: Chemist
Date: 12/26/2012

Instrument: Au-fid84 12/27/12-1 (BD12660, BD12663, BD12664, BD12665, BD12666, BD12667, BD12670, BD12671, BD12672, BD12675, BD12678, BD12679, BD12681, BD12682, BD12684)

Initial Calibration (FID84 - ETPH_13) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

The daily continuing calibration standard was within method criteria of +/- 30 %D.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers: none

Printed Name Keith Aloisa
Position: Chemist
Date: 12/27/2012

Instrument: Au-xl1 12/29/12-1 (BD12668, BD12669)

Initial Calibration (FIDXL1 ETPH_1) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

The daily continuing calibration standard was within method criteria of +/- 30 %D.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers:C36



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RCP Certification Report

January 03, 2013

SDG I.D.: GBD12659

Printed Name Jeff Bucko
Position: Chemist
Date: 12/29/2012

QC Comments: QC Batch 17059 12/24/12 (BD12660, BD12663, BD12664, BD12665, BD12666, BD12667, BD12668, BD12669, BD12670, BD12671)

QC Comments: QC Batch 17130 12/26/12 (BD12672, BD12675, BD12678, BD12679, BD12681, BD12682, BD12684)

QC (Site Specific)

----- Sample No: BD12681, QA/QC Batch: 217130 -----

All LCS recoveries were within 50 - 150 with the following exceptions: None.

All LCSD recoveries were within 50 - 150 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 50 - 150 with the following exceptions: None.

All MSD recoveries were within 50 - 150 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: % n-Pentacosane(32.4%)

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

QC (Batch Specific)

----- Sample No: BD12465, QA/QC Batch: 217059 -----

All LCS recoveries were within 50 - 150 with the following exceptions: None.

All LCSD recoveries were within 50 - 150 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

PAH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

QC Comments: QC Batch 17058 12/24/12 (BD12668, BD12669)



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RCP Certification Report

January 03, 2013

SDG ID.: GBD12659

QC (Batch Specific)

----- Sample No: BD12467, QA/QC Batch: 217058 -----

All LCS recoveries were within 30 - 130 with the following exceptions: None.

All LCSD recoveries were within 30 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Au-ecd3 12/27/12-1 (BD12685, BD12686)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner

Position: Chemist

Date: 12/27/2012

Instrument: Au-ecd3 12/28/12-1 (BD12660, BD12672)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner

Position: Chemist

Date: 12/28/2012

Instrument: Au-ecd3 12/31/12-1 (BD12668, BD12669, BD12671)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none



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RCP Certification Report

January 03, 2013

SDG ID.: GBD12659

Printed Name Adam Werner
Position: Chemist
Date: 12/31/2012

Instrument: Au-eed6 12/28/12-1 (BD12663, BD12664)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 12/28/2012

QC Comments: QC Batch 17131 12/26/12 (BD12685, BD12686)

QC Comments: QC Batch 17201 12/27/12 (BD12660, BD12663, BD12664, BD12668, BD12669, BD12671, BD12672)



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RCP Certification Report

January 03, 2013

SDG I.D.: GBD12659

QC (Site Specific)

----- Sample No: BD12660, QA/QC Batch: 217201 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 40 - 140 with the following exceptions: None.

All MSD recoveries were within 40 - 140 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: None.

----- Sample No: BD12685, QA/QC Batch: 217131 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 40 - 140 with the following exceptions: None.

All MSD recoveries were within 40 - 140 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: None.

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Chem07 12/26/12-1 (BD12668, BD12669)

The DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

Initial Calibration (Chem07/SV_1214):

Greater than 90% of the target compounds met calibration criteria with a RSD <20% or >0.99 correlation coefficient. The following compounds had RSDs >20% and <0.99 correlation coefficient: Hexachlorocyclopentadiene, Atrazine

The following compounds failed to meet the minimum required response factor: 2-nitrophenol, Hexachlorobenzene

Continuing Calibration:

Greater than 80% of target compounds met continuing calibration criteria with a %D <20. The following compounds had >20% difference from the initial calibration: Benzaldehyde, Aniline, 4-Chloroaniline, Atrazine, Carbazole, Di-n-octylphthalate



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RCP Certification Report

January 03, 2013

SDG I.D.: GBD12659

Printed Name Damien Drobinski
Position: Chemist
Date: 12/26/2012

QC Comments: QC Batch 17058 12/24/12 (BD12668, BD12669)

QC (Batch Specific)

----- Sample No: BD12467, QA/QC Batch: 217058 -----

All LCS recoveries were within 30 - 130 with the following exceptions: None.

All LCSD recoveries were within 30 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Chem15 12/26/12-1 (BD12673)

Initial Calibration Verification (CHEM15/RCPS_1226):

>90% of target compounds met criteria.

The following compounds had %RSDs >20%: Chloromethane, Acetone, Methylene Chloride

Continuing Calibration Verification:

>80% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration.

The following compounds had % Deviations >20%: Tetrahydrofuran (THF)

Printed Name Phyllis Shiller
Position: Chemist
Date: 12/26/2012



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RCP Certification Report

January 03, 2013

SDG I.D.: GBD12659

QC (Batch Specific)

----- Sample No: BD12006, QA/QC Batch: 217244 -----

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Additional 8260 criteria: 10% of compounds can be outside of acceptance criteria as long as recovery is 40-160%.

Temperature Narration

The samples in this delivery group were received at 6°C.
(Note acceptance criteria is above freezing up to 6°C)

Greg - Phoenixlabs

From: James Hutton [james.hutton@gza.com]
Sent: Wednesday, December 26, 2012 4:43 PM
To: Greg - Phoenixlabs
Subject: Re: Samples

Can those two samples be done in 24 hour TAT?

If yes, please do so.

Thanks very much for your follow up on this. Excellent as always.

Jim H

Sent from my iPhone

BD12685
BD12686

On Dec 26, 2012, at 4:39 PM, "Greg - Phoenixlabs" <greg@phoenixlabs.com> wrote:

Jim,

I did find a COC with A14 S-1 and A14 S-2 for PCB only, with a 48 hour TAT.

Gregory Lawrence
Phoenix Environmental Laboratories
587 East Middle Turnpike
Manchester, CT 06040
Ph: 1-860-645-1102

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For information about GZA GeoEnvironmental, Inc. and its services, please visit our website at www.gza.com.

12/26/2012

Cooler: Yes ☐ No ☐
Coolant: ☒ H₂O ☐ N₂

Temp °C Pg 2 of 3

CHAIN OF CUSTODY RECORD

Data Delivery:

☐ Fax #:

587 East Middle Turnpike, Manchester, CT 06040

Email: info@phoenixlabs.com Fax (860) 645-0823

Client Services (860) 645-8726

Email: james.hutton@pgea.com

Customer:

GZA GeoEnvironmental, Inc.

Project:

OS 00433369.82 (Commercial Fundy)

Project P.O.:

Address:

655 Winding Brook Dr, Suite 400

Report to:

Jim Hutton

Phone #:

Invoice to:

GZA Accounting

Fax #:

Client Sample Information - Identification

Sampler's Signature

[Signature]

Analysis Request

Date: 12/22/12

Matrix Code:

DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
SE=Sediment SL=Sludge S=Soil/Solid W=Wipe O=Other

PHOENIX USE ONLY

SAMPLE #

Customer Sample Identification

Sample Matrix

Date Sampled

Time Sampled

Notes

GL VOA Vials (1 methanol, 4 H₂O)

GL Soil container (4)

GL Amber 1000ml (1 As Is, 1 HCl)

PL As Is (1250ml) [As Is] [H₂SO₄]

PL HNO₃ 250ml [250ml] [500ml] [1000ml]

PL H₂SO₄ [250ml] [250ml] [500ml] [1000ml]

Bacteria Bottle

3

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

Relinquished by:

Accepted by:

Date:

Time:

RI

CT

MA

Data Format

Excel

PDF

GIS/Key

EQUIS

Other

Data Package

Tier II Checklist

Full Data Package*

Phoenix Std Report

Other

* SURCHARGE APPLIES

State where samples were collected: CT

Comments, Special Requirements or Regulations:

A. PCB detection limits < 0.5 ppm. All other analyses detection limits to meet RSRs.

B. Analyze for ETPH. If results > RSRs, then run SVOC-PAHs.

C. Hold all analyses pending results of other samples.



Thursday, January 03, 2013

Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Project ID: COMMERCIAL FOUNDRY

Sample ID#s: BD12964 - BD12970, BD12972 - BD12980, BD12982 - BD12987

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: JA
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 11:25
12/27/12 13:41

Laboratory Data

SDG ID: GBD12964
Phoenix ID: BD12964

Project ID: COMMERCIAL FOUNDRY
Client ID: A3-F1-0-0.5

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	99		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/27/12	BQ/K/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1248	*	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1254	*	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
Total PCBs	1.8	0.33	mg/kg	12/28/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	95	%	12/28/12	AW	30 - 150 %
% TCMX	122	%	12/28/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

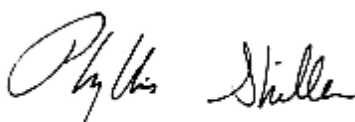
Comments:

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: JA
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 11:30
12/27/12 13:41

Laboratory Data

SDG ID: GBD12964
Phoenix ID: BD12965

Project ID: COMMERCIAL FOUNDRY
Client ID: A3-F2-0-0.5

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	99		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/27/12	BQ/K/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1248	*	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1254	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
Total PCBs	0.66	0.33	mg/kg	12/28/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	84	%	12/28/12	AW	30 - 150 %
% TCMX	101	%	12/28/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

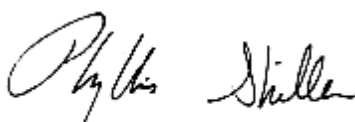
Comments:

* For PCBs, as per section 11.9.3, when weathering of PCBs is present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles aroclor 1248.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: JA
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 11:45
12/27/12 13:41

Laboratory Data

SDG ID: GBD12964
Phoenix ID: BD12966

Project ID: COMMERCIAL FOUNDRY
Client ID: A3-F3-0-0.5

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	98		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/27/12	BQ/K/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1248	*	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1254	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
Total PCBs	1.1	0.33	mg/kg	12/28/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	91	%	12/28/12	AW	30 - 150 %
% TCMX	109	%	12/28/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

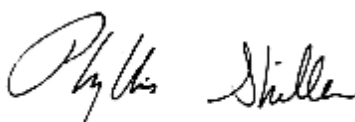
Comments:

* For PCBs, as per section 11.9.3, when weathering of PCBs is present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles aroclor 1248.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: JA
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 11:50
12/27/12 13:41

Laboratory Data

SDG ID: GBD12964
Phoenix ID: BD12967

Project ID: COMMERCIAL FOUNDRY
Client ID: A3-F4-0-0.5

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/27/12	BQ/K/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.32	mg/kg	12/28/12	AW	3540C/8082
PCB-1221	ND	0.32	mg/kg	12/28/12	AW	3540C/8082
PCB-1232	ND	0.32	mg/kg	12/28/12	AW	3540C/8082
PCB-1242	ND	0.32	mg/kg	12/28/12	AW	3540C/8082
PCB-1248	*	0.32	mg/kg	12/28/12	AW	3540C/8082
PCB-1254	ND	0.32	mg/kg	12/28/12	AW	3540C/8082
PCB-1260	ND	0.32	mg/kg	12/28/12	AW	3540C/8082
PCB-1262	ND	0.32	mg/kg	12/28/12	AW	3540C/8082
PCB-1268	ND	0.32	mg/kg	12/28/12	AW	3540C/8082
Total PCBs	2.8	0.32	mg/kg	12/28/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	82	%	12/28/12	AW	30 - 150 %
% TCMX	105	%	12/28/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

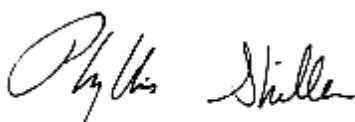
Comments:

* For PCBs, as per section 11.9.3, when weathering of PCBs is present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles aroclor 1248.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: JA
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 12:00
12/27/12 13:41

Laboratory Data

SDG ID: GBD12964
Phoenix ID: BD12968

Project ID: COMMERCIAL FOUNDRY
Client ID: A3-F5-0-0.5

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	99		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/27/12	BQ/K/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	1.6	mg/kg	12/31/12	AW	3540C/8082
PCB-1221	ND	1.6	mg/kg	12/31/12	AW	3540C/8082
PCB-1232	ND	1.6	mg/kg	12/31/12	AW	3540C/8082
PCB-1242	ND	1.6	mg/kg	12/31/12	AW	3540C/8082
PCB-1248	*	1.6	mg/kg	12/31/12	AW	3540C/8082
PCB-1254	*	1.6	mg/kg	12/31/12	AW	3540C/8082
PCB-1260	ND	1.6	mg/kg	12/31/12	AW	3540C/8082
PCB-1262	ND	1.6	mg/kg	12/31/12	AW	3540C/8082
PCB-1268	ND	1.6	mg/kg	12/31/12	AW	3540C/8082
Total PCBs	6.9	1.6	mg/kg	12/31/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out	%	12/31/12	AW	30 - 150 %
% TCMX	Diluted Out	%	12/31/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

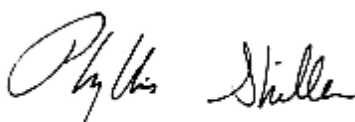
Comments:

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: JA
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 12:25
12/27/12 13:41

Laboratory Data

SDG ID: GBD12964
Phoenix ID: BD12969

Project ID: COMMERCIAL FOUNDRY
Client ID: A4-F1-0-0.5

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	97		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/27/12	BQ/K/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.34	mg/kg	12/28/12	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	12/28/12	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	12/28/12	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	12/28/12	AW	3540C/8082
PCB-1248	*	0.34	mg/kg	12/28/12	AW	3540C/8082
PCB-1254	*	0.34	mg/kg	12/28/12	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	12/28/12	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	12/28/12	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	12/28/12	AW	3540C/8082
Total PCBs	3.9	0.34	mg/kg	12/28/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	97	%	12/28/12	AW	30 - 150 %
% TCMX	120	%	12/28/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

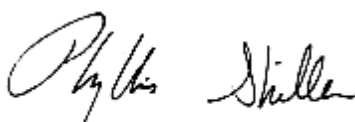
Comments:

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: JA
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 12:10
12/27/12 13:41

Laboratory Data

SDG ID: GBD12964
Phoenix ID: BD12970

Project ID: COMMERCIAL FOUNDRY
Client ID: A4-F2-0-0.5

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	99		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/27/12	BQ/K/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1248	*	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1254	*	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
Total PCBs	0.53	0.33	mg/kg	12/28/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	98	%	12/28/12	AW	30 - 150 %
% TCMX	93	%	12/28/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

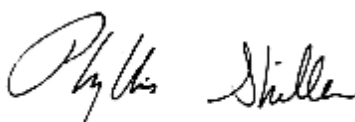
Comments:

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: JA
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 12:40
12/27/12 13:41

Laboratory Data

SDG ID: GBD12964
Phoenix ID: BD12972

Project ID: COMMERCIAL FOUNDRY
Client ID: A4-F3 0-0.5

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	99		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/27/12	BQ/K/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1248	*	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1254	*	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
Total PCBs	0.68	0.33	mg/kg	12/28/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	94	%	12/28/12	AW	30 - 150 %
% TCMX	118	%	12/28/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

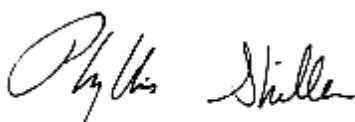
Comments:

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All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: JA
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 12:50
12/27/12 13:41

Laboratory Data

SDG ID: GBD12964
Phoenix ID: BD12973

Project ID: COMMERCIAL FOUNDRY
Client ID: A4-F5-0-0.5

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	99		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/27/12	BQ/K/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1248	*	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1254	*	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
Total PCBs	0.53	0.33	mg/kg	12/28/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	105	%	12/28/12	AW	30 - 150 %
% TCMX	94	%	12/28/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

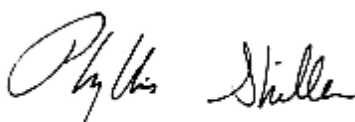
Comments:

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All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: JA
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 12:45
12/27/12 13:41

Laboratory Data

SDG ID: GBD12964
Phoenix ID: BD12974

Project ID: COMMERCIAL FOUNDRY
Client ID: A4-F4-0-0.5

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	99		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/27/12	BQ/K/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1248	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1254	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	12/28/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	104	%	12/28/12	AW	30 - 150 %
% TCMX	111	%	12/28/12	AW	30 - 150 %

Project ID: COMMERCIAL FOUNDRY
Client ID: A4-F4-0-0.5

Phoenix I.D.: BD12974

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: JA
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 12:55
12/27/12 13:41

Laboratory Data

SDG ID: GBD12964
Phoenix ID: BD12975

Project ID: COMMERCIAL FOUNDRY
Client ID: A4-F6-0.0.5

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	98		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/27/12	BQ/K/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.34	mg/kg	12/28/12	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	12/28/12	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	12/28/12	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	12/28/12	AW	3540C/8082
PCB-1248	*	0.34	mg/kg	12/28/12	AW	3540C/8082
PCB-1254	*	0.34	mg/kg	12/28/12	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	12/28/12	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	12/28/12	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	12/28/12	AW	3540C/8082
Total PCBs	3	0.34	mg/kg	12/28/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	101	%	12/28/12	AW	30 - 150 %
% TCMX	135	%	12/28/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

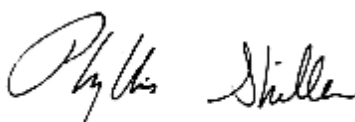
Comments:

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254.

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: JA
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 14:05
12/27/12 13:41

Laboratory Data

SDG ID: GBD12964
Phoenix ID: BD12976

Project ID: COMMERCIAL FOUNDRY
Client ID: A5-F1-0-0.5

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/27/12	BQ/K/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1248	*	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1254	*	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
Total PCBs	1.2	0.33	mg/kg	12/28/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	134	%	12/28/12	AW	30 - 150 %
% TCMX	122	%	12/28/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

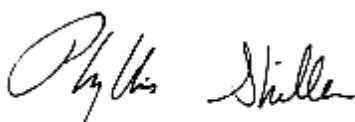
Comments:

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: JA
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 14:10
12/27/12 13:41

Laboratory Data

SDG ID: GBD12964
Phoenix ID: BD12977

Project ID: COMMERCIAL FOUNDRY
Client ID: A5-F2-0-0.5

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/27/12	BQ/K/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1248	*	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1254	*	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
Total PCBs	3.4	0.33	mg/kg	12/31/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	108	%	12/31/12	AW	30 - 150 %
% TCMX	98	%	12/31/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

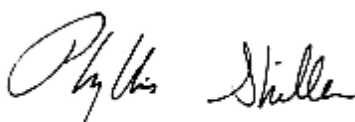
Comments:

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: JA
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 14:15
12/27/12 13:41

Laboratory Data

SDG ID: GBD12964
Phoenix ID: BD12978

Project ID: COMMERCIAL FOUNDRY
Client ID: A5-F3-0-0.5

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	99		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/27/12	BQ/K/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1248	*	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1254	*	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
Total PCBs	2.7	0.34	mg/kg	12/31/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	99	%	12/31/12	AW	30 - 150 %
% TCMX	116	%	12/31/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

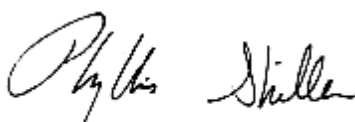
Comments:

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: JA
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 14:20
12/27/12 13:41

Laboratory Data

SDG ID: GBD12964
Phoenix ID: BD12979

Project ID: COMMERCIAL FOUNDRY
Client ID: A5-F4-0-0.5

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	97		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/27/12	BQ/K/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1248	*	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1254	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
Total PCBs	1	0.34	mg/kg	12/31/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	94	%	12/31/12	AW	30 - 150 %
% TCMX	99	%	12/31/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

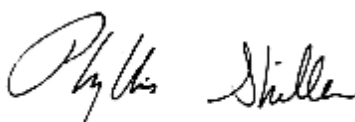
Comments:

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: JA
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 14:25
12/27/12 13:41

Laboratory Data

SDG ID: GBD12964
Phoenix ID: BD12980

Project ID: COMMERCIAL FOUNDRY
Client ID: A5-F5-0-0.5

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	97		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/27/12	BQ/K/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	3.3	mg/kg	12/31/12	AW	3540C/8082
PCB-1221	ND	3.3	mg/kg	12/31/12	AW	3540C/8082
PCB-1232	ND	3.3	mg/kg	12/31/12	AW	3540C/8082
PCB-1242	ND	3.3	mg/kg	12/31/12	AW	3540C/8082
PCB-1248	*	3.3	mg/kg	12/31/12	AW	3540C/8082
PCB-1254	ND	3.3	mg/kg	12/31/12	AW	3540C/8082
PCB-1260	ND	3.3	mg/kg	12/31/12	AW	3540C/8082
PCB-1262	ND	3.3	mg/kg	12/31/12	AW	3540C/8082
PCB-1268	ND	3.3	mg/kg	12/31/12	AW	3540C/8082
Total PCBs	9.6	3.3	mg/kg	12/31/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out	%	12/31/12	AW	30 - 150 %
% TCMX	Diluted Out	%	12/31/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

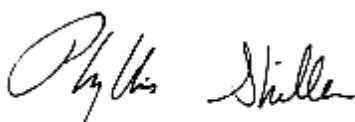
Comments:

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: JA
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 13:00
12/27/12 13:41

Laboratory Data

SDG ID: GBD12964
Phoenix ID: BD12982

Project ID: COMMERCIAL FOUNDRY
Client ID: A4-F7-0-0.5

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	99		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/27/12	BQ/K/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1248	*	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1254	*	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
Total PCBs	1.5	0.33	mg/kg	12/31/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	104	%	12/31/12	AW	30 - 150 %
% TCMX	95	%	12/31/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

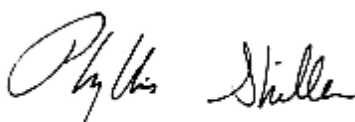
Comments:

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: JA
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 14:40
12/27/12 13:41

Laboratory Data

SDG ID: GBD12964
Phoenix ID: BD12983

Project ID: COMMERCIAL FOUNDRY
Client ID: A10-F1-0-0.5

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	98		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/27/12	BQ/K/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	1.7	mg/kg	12/31/12	AW	3540C/8082
PCB-1221	ND	1.7	mg/kg	12/31/12	AW	3540C/8082
PCB-1232	ND	1.7	mg/kg	12/31/12	AW	3540C/8082
PCB-1242	ND	1.7	mg/kg	12/31/12	AW	3540C/8082
PCB-1248	*	1.7	mg/kg	12/31/12	AW	3540C/8082
PCB-1254	ND	1.7	mg/kg	12/31/12	AW	3540C/8082
PCB-1260	ND	1.7	mg/kg	12/31/12	AW	3540C/8082
PCB-1262	ND	1.7	mg/kg	12/31/12	AW	3540C/8082
PCB-1268	ND	1.7	mg/kg	12/31/12	AW	3540C/8082
Total PCBs	7	1.7	mg/kg	12/31/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out	%	12/31/12	AW	30 - 150 %
% TCMX	Diluted Out	%	12/31/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

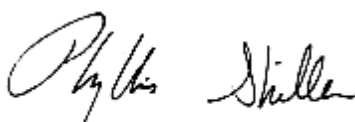
Comments:

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: JA
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 14:45
12/27/12 13:41

Laboratory Data

SDG ID: GBD12964
Phoenix ID: BD12984

Project ID: COMMERCIAL FOUNDRY
Client ID: A10-F2-0-0.5

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	98		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/27/12	BQ/K/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.34	mg/kg	12/28/12	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	12/28/12	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	12/28/12	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	12/28/12	AW	3540C/8082
PCB-1248	*	0.34	mg/kg	12/28/12	AW	3540C/8082
PCB-1254	*	0.34	mg/kg	12/28/12	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	12/28/12	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	12/28/12	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	12/28/12	AW	3540C/8082
Total PCBs	0.62	0.34	mg/kg	12/28/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	113	%	12/28/12	AW	30 - 150 %
% TCMX	94	%	12/28/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

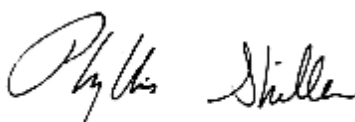
Comments:

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: JA
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 14:50
12/27/12 13:41

Laboratory Data

SDG ID: GBD12964
Phoenix ID: BD12985

Project ID: COMMERCIAL FOUNDRY
Client ID: A10-F3-0-0.5

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	99		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/27/12	BQ/K/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1248	*	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1254	*	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
Total PCBs	1	0.33	mg/kg	12/28/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	96	%	12/28/12	AW	30 - 150 %
% TCMX	97	%	12/28/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

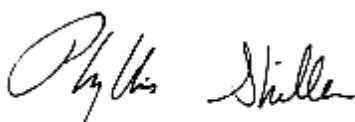
Comments:

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: JA
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 14:55
12/27/12 13:41

Laboratory Data

SDG ID: GBD12964
Phoenix ID: BD12986

Project ID: COMMERCIAL FOUNDRY
Client ID: A10-F4-0-0.5

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	99		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/27/12	BQ/K/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1248	*	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1254	*	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
Total PCBs	0.5	0.33	mg/kg	12/28/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	103	%	12/28/12	AW	30 - 150 %
% TCMX	96	%	12/28/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

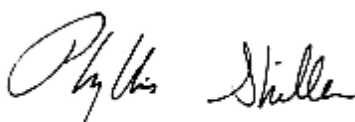
Comments:

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: JA
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 15:00
12/27/12 13:41

Laboratory Data

SDG ID: GBD12964
Phoenix ID: BD12987

Project ID: COMMERCIAL FOUNDRY
Client ID: A10-F5-0-0.5

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	99		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/27/12	BQ/K/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.34	mg/kg	12/28/12	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	12/28/12	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	12/28/12	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	12/28/12	AW	3540C/8082
PCB-1248	ND	0.34	mg/kg	12/28/12	AW	3540C/8082
PCB-1254	ND	0.34	mg/kg	12/28/12	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	12/28/12	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	12/28/12	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	12/28/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	100	%	12/28/12	AW	30 - 150 %
% TCMX	89	%	12/28/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

January 03, 2013

QA/QC Data

SDG I.D.: GBD12964

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 217201, QC Sample No: BD12660 (BD12964, BD12965, BD12966, BD12967, BD12968, BD12969, BD12970, BD12972, BD12973, BD12974, BD12975, BD12976, BD12977)									
<u>Polychlorinated Biphenyls - Solid</u>									
PCB-1016	ND	80	85	6.1	92	86	6.7	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	85	88	3.5	95	92	3.2	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	90	89	97	8.6	92	91	1.1	30 - 150	30
% TCMX (Surrogate Rec)	90	85	92	7.9	96	89	7.6	30 - 150	30

QA/QC Batch 217233, QC Sample No: BD12978 (BD12978, BD12979, BD12980, BD12982, BD12983, BD12984, BD12985, BD12986, BD12987)

Polychlorinated Biphenyls - Solid

PCB-1016	ND	95	86	9.9				40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	96	87	9.8				40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	87	95	87	8.8				30 - 150	30
% TCMX (Surrogate Rec)	85	98	87	11.9				30 - 150	30

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis Shiller, Laboratory Director
January 03, 2013

Thursday, January 03, 2013

Requested Criteria: None

State: CT

Sample Criteria Exceedences Report

GBD12964 - GZA-PCB

Page 1 of 1

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
--------	-------	-----------------	----------	--------	----	----------	----------------	-------------------

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** GZA-PCB

Project Location: COMMERCIAL FOUNDRY **Project Number:**

Laboratory Sample ID(s): BD12964, BD12965, BD12966, BD12967, BD12968, BD12969, BD12970, BD12971, BD12972, BD12973, BD12974, BD12975, BD12976, BD12977, BD12978, BD12979, BD12980, BD12981, BD12982, BD12983, BD12984, BD12985, BD12986, BD12987

Sampling Date(s): 12/26/2012

RCP Methods Used:

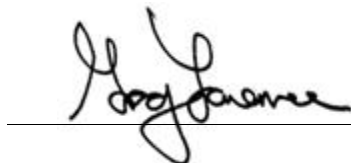
☐ 1311/1312 ☐ 6010 ☐ 7000 ☐ 7196 ☐ 7470/7471 ☐ 8081 ☐ EPH ☐ TO15
☒ 8082 ☐ 8151 ☐ 8260 ☐ 8270 ☐ ETPH ☐ 9010/9012 ☐ VPH

1.	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1a.	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1b.	EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2.	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4.	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5a.	Were reporting limits specified or referenced on the chain-of-custody?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5b.	Were these reporting limits met?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
6.	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

Note: For all questions to which the response was "No" (with the exception of question #5a, #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized
Signature:



Date: Thursday, January 03, 2013
Printed Name: Greg Lawrence
Position: Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

January 03, 2013

SDG I.D.: GBD12964

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Au-ecd3 12/28/12-1 (BD12984, BD12985, BD12986, BD12987)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 12/28/2012

Instrument: Au-ecd3 12/31/12-1 (BD12977, BD12982)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 12/31/2012

Instrument: Au-ecd35 12/31/12-1 (BD12968, BD12983)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 12/31/2012

Instrument: Au-ecd6 12/28/12-1 (BD12964, BD12965, BD12966, BD12967, BD12969, BD12970, BD12972, BD12973, BD12974, BD12975, BD12976)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

January 03, 2013

SDG I.D.: GBD12964

Printed Name Adam Werner
Position: Chemist
Date: 12/28/2012

Instrument: Au-ecd6 12/31/12-1 (BD12978, BD12979, BD12980)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 12/31/2012

QC Comments: QC Batch 17201 12/27/12 (BD12964, BD12965, BD12966, BD12967, BD12968, BD12969, BD12970, BD12972, BD12973, BD12974, BD12975, BD12976, BD12977)

QC Comments: QC Batch 17233 12/27/12 (BD12978, BD12979, BD12980, BD12982, BD12983, BD12984, BD12985, BD12986, BD12987)

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

QC (Site Specific)

----- Sample No: BD12978, QA/QC Batch: 217233 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

QC (Batch Specific)

----- Sample No: BD12660, QA/QC Batch: 217201 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

January 03, 2013

SDG LD.: GBD12964

Temperature Narration

The samples were received at 6C with cooling initiated.
No bias in the sample results are suspected due to temperature.

Cooler: Yes ☐ No ☒
Coolant: ☒ No ☐

Temp 6 °C Pg 2 of 4

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726



Customer: GZA
Address: 653 WINDYBROOK DR
GASTONBURY CT 06033

Project: COMMERCIAL FURNACE
Report to: JIM HUTTON
Invoice to: JIM HUTTON

Project P.O.: 43369.82
Phone #:
Fax #:

Client Sample Information - Identification
Sampler's Signature: *[Signature]* Date: 12/26/12

Matrix Code:
DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
SE=Sediment SL=Sludge S=Soil/Solid W=Wipe O=Other

PHENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Analysis Request
12976	A5-F1-0-0.5	0	12/26/12	1405	✓
12977	A5-F2-0-0.5	0	12/26/12	1410	✓
12978	A5-F3-0-0.5	0	12/26/12	1415	✓
12979	A5-F4-0-0.5	0	12/26/12	1420	✓
12980	A5-F5-0-0.5	0	12/26/12	1425	✓
12981	A5-F3		12/26/12	1415	✓
12982	A4-F7-0-0.5	0	12/26/12	1300	✓
12983	A10-F1-0-0.5	0	12/26/12	1440	✓
12984	A10-F2-0-0.5	0	12/26/12	1445	✓
12985	A10-F3-0-0.5	0	12/26/12	1450	✓
12986	A10-F4-0-0.5	0	12/26/12	1455	✓
12987	A10-F5-0-0.5	0	12/26/12	1500	✓

Relinquished by: *[Signature]* Accepted by: *[Signature]*

Date: 12/26/12 Time: 1715
12/27/12 11:15
12/31/12 1341

Turnaround:
1 Day* ☐
2 Days* ☒
3 Days* ☐
Standard ☐
Other ☐

Comments, Special Requirements or Regulations:
0 - CONTINUE
① Hold sample and freeze

RI ☐ Direct Exposure (Residential) ☐ GW ☐ Other ☐
CI ☒ RCP Cert ☐ GW Protection ☐ SW Protection ☐ GA Mobility ☐ GB Mobility ☐ Residential DEC ☐ I/C DEC ☐ Other ☐
MA ☐ MCP Certification ☐ GW-1 ☐ GW-2 ☐ GW-3 ☐ S-1 ☐ S-2 ☐ S-3 ☐ MWRA eSMART ☐ Other ☐
Data Format ☒ Excel ☒ PDF ☐ GIS/Key ☐ EQUIS ☐ Other ☐
Data Package ☐ Tier II Checklist ☐ Full Data Package* ☐ Phoenix Std Report ☒ Other ☐
State where samples were collected: CT
* SURCHARGE APPLIES



Thursday, January 03, 2013

Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Project ID: COMMERCIAL FOUNDRY
Sample ID#s: BD12988 - BD13001

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: JA
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 15:05
12/27/12 13:41

Laboratory Data

SDG ID: GBD12988
Phoenix ID: BD12988

Project ID: COMMERCIAL FOUNDRY
Client ID: A10-F6-0-0.5

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	99		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/27/12	BQ/K/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1248	*	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1254	*	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
Total PCBs	1	0.33	mg/kg	12/28/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	88	%	12/28/12	AW	30 - 150 %
% TCMX	88	%	12/28/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

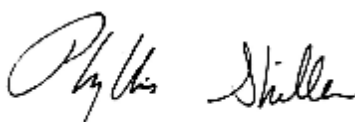
Comments:

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: JA
Received by: LB
Analyzed by: see "By" below

<u>Date</u>	<u>Time</u>
12/26/12	15:10
12/27/12	13:41

Laboratory Data

SDG ID: GBD12988
Phoenix ID: BD12989

Project ID: COMMERCIAL FOUNDRY
Client ID: A10-F7-0-0.5

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	99		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/27/12	BQ/K/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.34	mg/kg	12/28/12	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	12/28/12	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	12/28/12	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	12/28/12	AW	3540C/8082
PCB-1248	*	0.34	mg/kg	12/28/12	AW	3540C/8082
PCB-1254	*	0.34	mg/kg	12/28/12	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	12/28/12	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	12/28/12	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	12/28/12	AW	3540C/8082
Total PCBs	2.5	0.34	mg/kg	12/28/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	100	%	12/28/12	AW	30 - 150 %
% TCMX	94	%	12/28/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

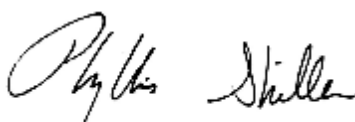
Comments:

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: JA
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 15:20
12/27/12 13:41

Laboratory Data

SDG ID: GBD12988
Phoenix ID: BD12990

Project ID: COMMERCIAL FOUNDRY
Client ID: A10-F8-0-0.5

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	99		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/27/12	BQ/K/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1248	*	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1254	*	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
Total PCBs	0.48	0.33	mg/kg	12/28/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	103	%	12/28/12	AW	30 - 150 %
% TCMX	92	%	12/28/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

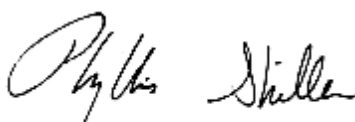
Comments:

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: JA
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 15:25
12/27/12 13:41

Laboratory Data

SDG ID: GBD12988
Phoenix ID: BD12991

Project ID: COMMERCIAL FOUNDRY
Client ID: A10-F9-0-0.5

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	99		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/27/12	BQ/K/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1248	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1254	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	12/28/12	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	12/28/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	98	%	12/28/12	AW	30 - 150 %
% TCMX	90	%	12/28/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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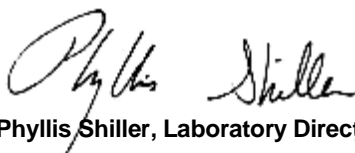
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: JA
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 15:30
12/27/12 13:41

Laboratory Data

SDG ID: GBD12988
Phoenix ID: BD12992

Project ID: COMMERCIAL FOUNDRY
Client ID: A10-F10-0-0.5

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	97		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/28/12	BB/E/D	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1248	*	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1254	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
Total PCBs	0.47	0.34	mg/kg	12/31/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	96	%	12/31/12	AW	30 - 150 %
% TCMX	84	%	12/31/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

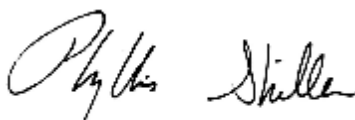
Comments:

* For PCBs, as per section 11.9.3, when weathering of PCBs is present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles aroclor 1248.

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If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: JA
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 15:35
12/27/12 13:41

Laboratory Data

SDG ID: GBD12988
Phoenix ID: BD12993

Project ID: COMMERCIAL FOUNDRY
Client ID: A10-F11-0-0.5

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	99		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/28/12	BB/E/D	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1248	*	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1254	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
Total PCBs	1.2	0.33	mg/kg	12/31/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	106	%	12/31/12	AW	30 - 150 %
% TCMX	96	%	12/31/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

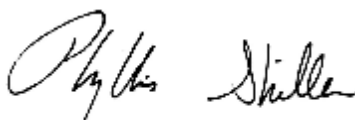
Comments:

* For PCBs, as per section 11.9.3, when weathering of PCBs is present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles aroclor 1248.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: JA
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 15:40
12/27/12 13:41

Laboratory Data

SDG ID: GBD12988
Phoenix ID: BD12994

Project ID: COMMERCIAL FOUNDRY
Client ID: A10-F12-0-0.5

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	99		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/28/12	BB/E/D	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1248	*	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1254	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
Total PCBs	3.2	0.33	mg/kg	12/31/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	98	%	12/31/12	AW	30 - 150 %
% TCMX	85	%	12/31/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

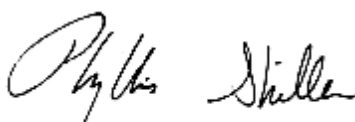
Comments:

* For PCBs, as per section 11.9.3, when weathering of PCBs is present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles aroclor 1248.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: JA
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 15:45
12/27/12 13:41

Laboratory Data

SDG ID: GBD12988
Phoenix ID: BD12995

Project ID: COMMERCIAL FOUNDRY
Client ID: A10-F13-0-0.5

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	99		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/28/12	BB/E/D	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1248	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1254	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	12/31/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	80	%	12/31/12	AW	30 - 150 %
% TCMX	66	%	12/31/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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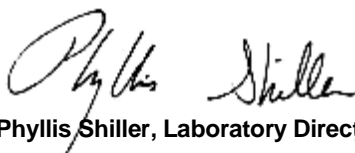
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: JA
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 15:50
12/27/12 13:41

Laboratory Data

SDG ID: GBD12988
Phoenix ID: BD12996

Project ID: COMMERCIAL FOUNDRY
Client ID: A10-F14-0-0.5

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	99		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/28/12	BB/E/D	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1248	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1254	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	12/31/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	86	%	12/31/12	AW	30 - 150 %
% TCMX	68	%	12/31/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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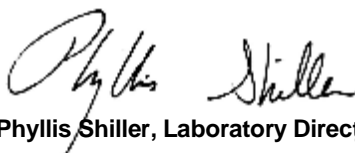
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: JA
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 16:10
12/27/12 13:41

Laboratory Data

SDG ID: GBD12988
Phoenix ID: BD12997

Project ID: COMMERCIAL FOUNDRY
Client ID: A10-F15-0-0.5

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	99		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/28/12	BB/E/D	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1248	*	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1254	*	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
Total PCBs	4.4	0.33	mg/kg	12/31/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	94	%	12/31/12	AW	30 - 150 %
% TCMX	50	%	12/31/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

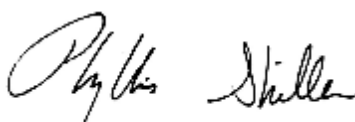
Comments:

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: JA
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 16:15
12/27/12 13:41

Laboratory Data

SDG ID: GBD12988
Phoenix ID: BD12998

Project ID: COMMERCIAL FOUNDRY
Client ID: A10-F16-0-0.5

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	99		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/28/12	BB/E/D	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1248	*	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1254	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
Total PCBs	1.4	0.34	mg/kg	12/31/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	91	%	12/31/12	AW	30 - 150 %
% TCMX	76	%	12/31/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

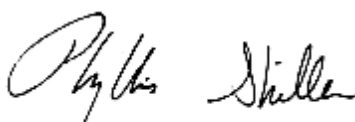
Comments:

* For PCBs, as per section 11.9.3, when weathering of PCBs is present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles aroclor 1248.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: JA
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 16:20
12/27/12 13:41

Laboratory Data

SDG ID: GBD12988
Phoenix ID: BD12999

Project ID: COMMERCIAL FOUNDRY
Client ID: A10-F17-0-0.5

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	98		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/28/12	BB/E/D	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1248	*	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1254	*	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
Total PCBs	1.9	0.33	mg/kg	12/31/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	98	%	12/31/12	AW	30 - 150 %
% TCMX	96	%	12/31/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

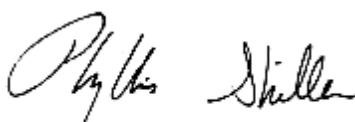
Comments:

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254.

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: JA
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 16:25
12/27/12 13:41

Laboratory Data

SDG ID: GBD12988
Phoenix ID: BD13000

Project ID: COMMERCIAL FOUNDRY
Client ID: A10-F18-0-0.5

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	99		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/28/12	BB/E/D	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1248	*	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1254	*	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
Total PCBs	1.1	0.33	mg/kg	12/31/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	114	%	12/31/12	AW	30 - 150 %
% TCMX	61	%	12/31/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

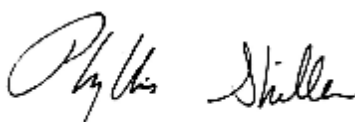
Comments:

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254.

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: JA
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 16:30
12/27/12 13:41

Laboratory Data

SDG ID: GBD12988
Phoenix ID: BD13001

Project ID: COMMERCIAL FOUNDRY
Client ID: A10-F19-0-0.5

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	98		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/28/12	BB/E/D	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1248	*	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1254	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	12/31/12	AW	3540C/8082
Total PCBs	1.3	0.33	mg/kg	12/31/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	89	%	12/31/12	AW	30 - 150 %
% TCMX	80	%	12/31/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

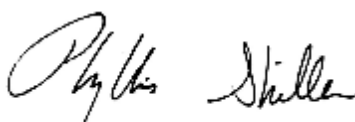
Comments:

* For PCBs, as per section 11.9.3, when weathering of PCBs is present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles aroclor 1248.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

January 03, 2013

QA/QC Data

SDG I.D.: GBD12988

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 217233, QC Sample No: BD12978 (BD12988, BD12989, BD12990, BD12991)									
Polychlorinated Biphenyls - Solid									
PCB-1016	ND	95	86	9.9				40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	96	87	9.8				40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	87	95	87	8.8				30 - 150	30
% TCMX (Surrogate Rec)	85	98	87	11.9				30 - 150	30

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

QA/QC Batch 217388, QC Sample No: BD13004 (BD12992, BD12993, BD12994, BD12995, BD12996, BD12997, BD12998, BD12999, BD13000, BD13001)

Polychlorinated Biphenyls - Solid

PCB-1016	ND	80	79	1.3	81	76	6.4	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	81	82	1.2	82	78	5.0	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	90	89	89	0.0	87	87	0.0	30 - 150	30
% TCMX (Surrogate Rec)	84	85	84	1.2	85	78	8.6	30 - 150	30

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis Shiller, Laboratory Director
January 03, 2013

Thursday, January 03, 2013

Requested Criteria: None

State: CT

Sample Criteria Exceedences Report

GBD12988 - GZA-PCB

Page 1 of 1

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** GZA-PCB

Project Location: COMMERCIAL FOUNDRY **Project Number:**

Laboratory Sample ID(s): BD12988, BD12989, BD12990, BD12991, BD12992, BD12993, BD12994, BD12995, BD12996, BD12997, BD12998, BD12999, BD13000, BD13001

Sampling Date(s): 12/26/2012

RCP Methods Used:

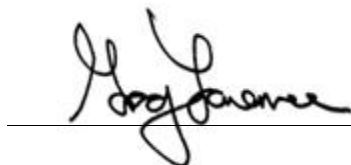
☐ 1311/1312 ☐ 6010 ☐ 7000 ☐ 7196 ☐ 7470/7471 ☐ 8081 ☐ EPH ☐ TO15
☒ 8082 ☐ 8151 ☐ 8260 ☐ 8270 ☐ ETPH ☐ 9010/9012 ☐ VPH

1.	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1a.	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1b.	EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2.	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4.	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5a.	Were reporting limits specified or referenced on the chain-of-custody?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5b.	Were these reporting limits met?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
6.	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA

Note: For all questions to which the response was "No" (with the exception of question #5a, #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized
Signature:



Date: Thursday, January 03, 2013

Printed Name: Greg Lawrence

Position: Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

January 03, 2013

SDG I.D.: GBD12988

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Au-ecd3 12/28/12-1 (BD12988, BD12989, BD12990, BD12991)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner

Position: Chemist

Date: 12/28/2012

Instrument: Au-ecd35 12/31/12-1 (BD12992, BD12993, BD12994, BD12995, BD12996, BD12997, BD12998, BD12999, BD13000, BD13001)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner

Position: Chemist

Date: 12/31/2012

QC Comments: QC Batch 17233 12/27/12 (BD12988, BD12989, BD12990, BD12991)

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

QC Comments: QC Batch 17388 12/28/12 (BD12992, BD12993, BD12994, BD12995, BD12996, BD12997, BD12998, BD12999, BD13000, BD13001)



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

January 03, 2013

SDG I.D.: GBD12988

QC (Batch Specific)

----- Sample No: BD12978, QA/QC Batch: 217233 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

----- Sample No: BD13004, QA/QC Batch: 217388 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Temperature Narration

The samples were received at 6C with cooling initiated.
(Note acceptance criteria is above freezing up to 6°C)



CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Cooler: Yes ☐ No ☒
Cooling: Yes ☒ No ☐

Temp 10 °C Pg 3 of 4

Data Delivery:
☐ Fax #:
☒ Email: James.Hutton@egza.com

Customer: GZA

Address: 655 Winding Brook Dr
Glastonbury, CT 06033

Project: Commercial Foundry

Report to: Jim Hutton

Invoice to: Jim Hutton

Project P.O.: 43369.82

Phone #:

Fax #:

Client Sample - Information - Identification

Sampler's Signature

Date: 12/26/12

Matrix Code:
DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
SE=Sediment SL=Sludge S=Soil/Solid W=Wipe O=Other

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
12988	A10-F6-0-0.5	0	12/26/12	1505
12989	A10-F7-0-0.5	0		1510
12990	A10-F8-0-0.5	0		1520
12991	A10-F9-0-0.5	0		1525
12992	A10-F10-0-0.5	0		1530
12993	A10-F11-0-0.5	0		1535
12994	A10-F12-0-0.5	0		1540
12995	A10-F13-0-0.5	0		1545
12996	A10-F14-0-0.5	0		1550
12997	A10-F15-0-0.5	0		1610
12998	A10-F16-0-0.5	0		1615
12999	A10-F17-0-0.5	0		1620

Analysis Request

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Analysis Request

Relinquished by: [Signature]

Accepted by: GZA Field

Date: 12/26/12

Time: 1715

Date: 12/27/12

Time: 1115

Date: 12/27/12

Time: 1349

Turnaround: 1 Day

☒ 1 Day* ☐ 2 Days* ☐ 3 Days* ☒ Standard ☐ Other

* SURCHARGE APPLIES

Comments, Special Requirements or Regulations:
O = Concrete

State where samples were collected: CT

* SURCHARGE APPLIES

Data Format

☒ Excel ☒ PDF

☐ GISKey ☐ EQUIS ☐ Other

Data Package

☐ Tier II Checklist ☐ Full Data Package* ☒ Phoenix Std Report ☐ Other

MA

☐ MCP Certification ☐ GW-1 ☐ GW-2 ☐ GW-3 ☐ S-1 ☐ S-2 ☐ S-3 ☐ MWRA eSMART ☐ Other

CT

☒ RCP Cert ☐ GW Protection ☐ SW Protection ☐ GA Mobility ☐ GB Mobility ☐ Residential DEC ☐ I/C DEC ☐ Other

RI

☐ Direct Exposure (Residential) ☐ GW ☐ Other



CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Cooler: Yes ☐ No ☒
Coolant: Water ☒ Ice ☒
Temp 10 °C 64 of 4

Data Delivery:

☐ Fax #:

Email: James.Hunter@phoenix.com

Customer: GZA

Address: 655 Windy Brook Dr
Glastonbury, CT 06033

Project: Commercial Foundry

Report to: Jim Hutton

Invoice to: Jim Hutton

Project P.O.: 43369682

Phone #:

Fax #:

Client Sample Information - Identification

Sampler's Signature [Signature]

GZA

Date: 12/26/12

Matrix Code:

DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
SE=Sediment SL=Sludge S=Soil/Solid W=Wipe O=Other

PHOENIX USE ONLY

SAMPLE #

Customer Sample Identification

Sample Matrix

Date Sampled

Time Sampled

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

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X

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X

X

X

X

Relinquished by: [Signature]

Accepted by: [Signature]

Comments: Special Requirements or Regulations:
0 = concrete

Turnaround: 1 Day

12/26/12

12/27/12

12/27/12

12/27/12

12/27/12

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12/27/12

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12/27/12

12/27/12

RI

Direct Exposure (Residential)

GW

Other

CT

RCP Cert

GW Protection

SW Protection

GA Mobility

GB Mobility

Residential DEC

I/C DEC

Other

MA

MCP Certification

GW-1

GW-2

GW-3

S-1

S-2

S-3

MWRA eSMART

Other

Data Format

Excel

PDF

GIS/Key

EQUIS

Other

Tier II Checklist

Full Data Package*

Phoenix Std Report

Other

* SURCHARGE APPLIES

State where samples were collected: CT

* SURCHARGE APPLIES



Thursday, January 03, 2013

Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Project ID: COMMERCIAL FOUNDRY

Sample ID#s: BD13002, BD13004 - BD13005, BD13008, BD13010 - BD13011, BD13014,
BD13016 - BD13017, BD13020 - BD13021

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 10:15
12/27/12 13:41

Laboratory Data

SDG ID: GBD13002
Phoenix ID: BD13002

Project ID: COMMERCIAL FOUNDRY
Client ID: A12-S-1 2.5-2.75 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	87		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/28/12	BB/E/D	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.38	mg/kg	12/31/12	AW	3540C/8082
PCB-1221	ND	0.38	mg/kg	12/31/12	AW	3540C/8082
PCB-1232	ND	0.38	mg/kg	12/31/12	AW	3540C/8082
PCB-1242	ND	0.38	mg/kg	12/31/12	AW	3540C/8082
PCB-1248	ND	0.38	mg/kg	12/31/12	AW	3540C/8082
PCB-1254	ND	0.38	mg/kg	12/31/12	AW	3540C/8082
PCB-1260	ND	0.38	mg/kg	12/31/12	AW	3540C/8082
PCB-1262	ND	0.38	mg/kg	12/31/12	AW	3540C/8082
PCB-1268	ND	0.38	mg/kg	12/31/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	102	%	12/31/12	AW	30 - 150 %
% TCMX	82	%	12/31/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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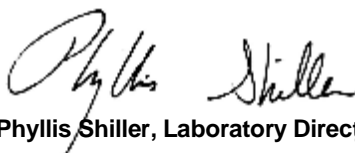
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 10:20
12/27/12 13:41

Laboratory Data

SDG ID: GBD13002
Phoenix ID: BD13004

Project ID: COMMERCIAL FOUNDRY
Client ID: A12-S-1 4.75-5 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	83		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/28/12	BB/E/D	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.39	mg/kg	12/31/12	AW	3540C/8082
PCB-1221	ND	0.39	mg/kg	12/31/12	AW	3540C/8082
PCB-1232	ND	0.39	mg/kg	12/31/12	AW	3540C/8082
PCB-1242	ND	0.39	mg/kg	12/31/12	AW	3540C/8082
PCB-1248	ND	0.39	mg/kg	12/31/12	AW	3540C/8082
PCB-1254	ND	0.39	mg/kg	12/31/12	AW	3540C/8082
PCB-1260	ND	0.39	mg/kg	12/31/12	AW	3540C/8082
PCB-1262	ND	0.39	mg/kg	12/31/12	AW	3540C/8082
PCB-1268	ND	0.39	mg/kg	12/31/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	95	%	12/31/12	AW	30 - 150 %
% TCMX	76	%	12/31/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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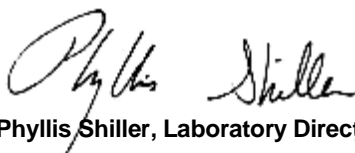
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 10:22
12/27/12 13:41

Laboratory Data

SDG ID: GBD13002
Phoenix ID: BD13005

Project ID: COMMERCIAL FOUNDRY
Client ID: A12-S-1 5.75-6 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	84		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/28/12	BB/E/D	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.39	mg/kg	12/31/12	AW	3540C/8082
PCB-1221	ND	0.39	mg/kg	12/31/12	AW	3540C/8082
PCB-1232	ND	0.39	mg/kg	12/31/12	AW	3540C/8082
PCB-1242	ND	0.39	mg/kg	12/31/12	AW	3540C/8082
PCB-1248	ND	0.39	mg/kg	12/31/12	AW	3540C/8082
PCB-1254	ND	0.39	mg/kg	12/31/12	AW	3540C/8082
PCB-1260	ND	0.39	mg/kg	12/31/12	AW	3540C/8082
PCB-1262	ND	0.39	mg/kg	12/31/12	AW	3540C/8082
PCB-1268	ND	0.39	mg/kg	12/31/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	100	%	12/31/12	AW	30 - 150 %
% TCMX	86	%	12/31/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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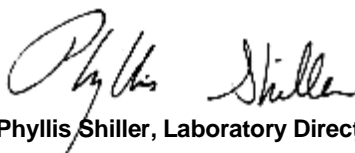
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date

12/26/12
12/27/12

Time

10:25
13:41

Laboratory Data

SDG ID: GBD13002
Phoenix ID: BD13008

Project ID: COMMERCIAL FOUNDRY
Client ID: A12-S-2 2.5-2.75 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	90		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/28/12	BB/E/D	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.37	mg/kg	12/31/12	AW	3540C/8082
PCB-1221	ND	0.37	mg/kg	12/31/12	AW	3540C/8082
PCB-1232	ND	0.37	mg/kg	12/31/12	AW	3540C/8082
PCB-1242	ND	0.37	mg/kg	12/31/12	AW	3540C/8082
PCB-1248	ND	0.37	mg/kg	12/31/12	AW	3540C/8082
PCB-1254	ND	0.37	mg/kg	12/31/12	AW	3540C/8082
PCB-1260	ND	0.37	mg/kg	12/31/12	AW	3540C/8082
PCB-1262	ND	0.37	mg/kg	12/31/12	AW	3540C/8082
PCB-1268	ND	0.37	mg/kg	12/31/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	94	%	12/31/12	AW	30 - 150 %
% TCMX	82	%	12/31/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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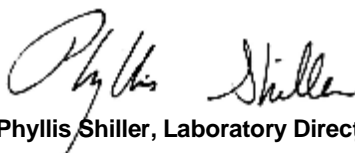
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 10:33
12/27/12 13:41

Laboratory Data

SDG ID: GBD13002
Phoenix ID: BD13010

Project ID: COMMERCIAL FOUNDRY
Client ID: A12-S-2 4.75-5 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	80		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/28/12	BB/E/D	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.41	mg/kg	12/31/12	AW	3540C/8082
PCB-1221	ND	0.41	mg/kg	12/31/12	AW	3540C/8082
PCB-1232	ND	0.41	mg/kg	12/31/12	AW	3540C/8082
PCB-1242	ND	0.41	mg/kg	12/31/12	AW	3540C/8082
PCB-1248	*	0.41	mg/kg	12/31/12	AW	3540C/8082
PCB-1254	ND	0.41	mg/kg	12/31/12	AW	3540C/8082
PCB-1260	ND	0.41	mg/kg	12/31/12	AW	3540C/8082
PCB-1262	ND	0.41	mg/kg	12/31/12	AW	3540C/8082
PCB-1268	ND	0.41	mg/kg	12/31/12	AW	3540C/8082
Total PCBs	1	0.41	mg/kg	12/31/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	93	%	12/31/12	AW	30 - 150 %
% TCMX	82	%	12/31/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

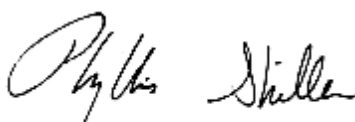
Comments:

* For PCBs, as per section 11.9.3, when weathering of PCBs is present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles aroclor 1248.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 10:37
12/27/12 13:41

Laboratory Data

SDG ID: GBD13002
Phoenix ID: BD13011

Project ID: COMMERCIAL FOUNDRY
Client ID: A12-S-2 5.75-6 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	85		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/28/12	BB/E/D	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.39	mg/kg	12/31/12	AW	3540C/8082
PCB-1221	ND	0.39	mg/kg	12/31/12	AW	3540C/8082
PCB-1232	ND	0.39	mg/kg	12/31/12	AW	3540C/8082
PCB-1242	ND	0.39	mg/kg	12/31/12	AW	3540C/8082
PCB-1248	ND	0.39	mg/kg	12/31/12	AW	3540C/8082
PCB-1254	ND	0.39	mg/kg	12/31/12	AW	3540C/8082
PCB-1260	ND	0.39	mg/kg	12/31/12	AW	3540C/8082
PCB-1262	ND	0.39	mg/kg	12/31/12	AW	3540C/8082
PCB-1268	ND	0.39	mg/kg	12/31/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	104	%	12/31/12	AW	30 - 150 %
% TCMX	79	%	12/31/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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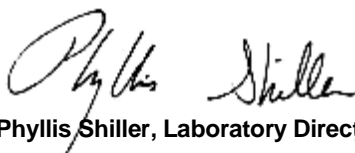
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 10:45
12/27/12 13:41

Laboratory Data

SDG ID: GBD13002
Phoenix ID: BD13014

Project ID: COMMERCIAL FOUNDRY
Client ID: A12-S-3 2.5-2.75 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	89		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/28/12	BB/E/D	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.37	mg/kg	12/31/12	AW	3540C/8082
PCB-1221	ND	0.37	mg/kg	12/31/12	AW	3540C/8082
PCB-1232	ND	0.37	mg/kg	12/31/12	AW	3540C/8082
PCB-1242	ND	0.37	mg/kg	12/31/12	AW	3540C/8082
PCB-1248	ND	0.37	mg/kg	12/31/12	AW	3540C/8082
PCB-1254	ND	0.37	mg/kg	12/31/12	AW	3540C/8082
PCB-1260	ND	0.37	mg/kg	12/31/12	AW	3540C/8082
PCB-1262	ND	0.37	mg/kg	12/31/12	AW	3540C/8082
PCB-1268	ND	0.37	mg/kg	12/31/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	93	%	12/31/12	AW	30 - 150 %
% TCMX	88	%	12/31/12	AW	30 - 150 %

Project ID: COMMERCIAL FOUNDRY
Client ID: A12-S-3 2.5-2.75 FT

Phoenix I.D.: BD13014

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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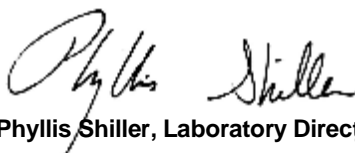
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 10:50
12/27/12 13:41

Laboratory Data

SDG ID: GBD13002
Phoenix ID: BD13016

Project ID: COMMERCIAL FOUNDRY
Client ID: A12-S-3 4.75-5 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	81		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/28/12	BB/E/D	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.41	mg/kg	12/31/12	AW	3540C/8082
PCB-1221	ND	0.41	mg/kg	12/31/12	AW	3540C/8082
PCB-1232	ND	0.41	mg/kg	12/31/12	AW	3540C/8082
PCB-1242	ND	0.41	mg/kg	12/31/12	AW	3540C/8082
PCB-1248	ND	0.41	mg/kg	12/31/12	AW	3540C/8082
PCB-1254	ND	0.41	mg/kg	12/31/12	AW	3540C/8082
PCB-1260	ND	0.41	mg/kg	12/31/12	AW	3540C/8082
PCB-1262	ND	0.41	mg/kg	12/31/12	AW	3540C/8082
PCB-1268	ND	0.41	mg/kg	12/31/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	93	%	12/31/12	AW	30 - 150 %
% TCMX	85	%	12/31/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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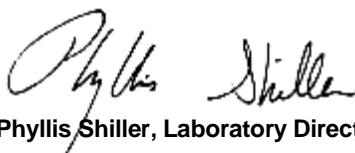
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 10:52
12/27/12 13:41

Laboratory Data

SDG ID: GBD13002
Phoenix ID: BD13017

Project ID: COMMERCIAL FOUNDRY
Client ID: A12-S-3 5.75-6 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	85		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/28/12	BB/E/D	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.38	mg/kg	12/31/12	AW	3540C/8082
PCB-1221	ND	0.38	mg/kg	12/31/12	AW	3540C/8082
PCB-1232	ND	0.38	mg/kg	12/31/12	AW	3540C/8082
PCB-1242	ND	0.38	mg/kg	12/31/12	AW	3540C/8082
PCB-1248	ND	0.38	mg/kg	12/31/12	AW	3540C/8082
PCB-1254	ND	0.38	mg/kg	12/31/12	AW	3540C/8082
PCB-1260	ND	0.38	mg/kg	12/31/12	AW	3540C/8082
PCB-1262	ND	0.38	mg/kg	12/31/12	AW	3540C/8082
PCB-1268	ND	0.38	mg/kg	12/31/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	94	%	12/31/12	AW	30 - 150 %
% TCMX	79	%	12/31/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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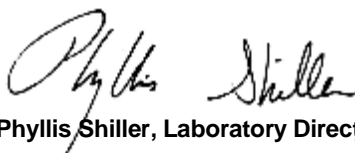
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 11:00
12/27/12 13:41

Laboratory Data

SDG ID: GBD13002
Phoenix ID: BD13020

Project ID: COMMERCIAL FOUNDRY
Client ID: A12-S-4 2.5-2.75 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	95		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/28/12	BB/E/D	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1248	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1254	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	12/31/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	98	%	12/31/12	AW	30 - 150 %
% TCMX	74	%	12/31/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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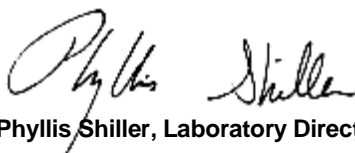
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 11:03
12/27/12 13:41

Laboratory Data

SDG ID: GBD13002
Phoenix ID: BD13021

Project ID: COMMERCIAL FOUNDRY
Client ID: A12-S-4 3.5-3.75 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	95		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/28/12	BB/E/D	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1248	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1254	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	12/31/12	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	12/31/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	90	%	12/31/12	AW	30 - 150 %
% TCMX	77	%	12/31/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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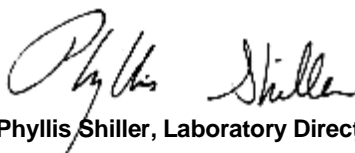
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

January 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

January 03, 2013

QA/QC Data

SDG I.D.: GBD13002

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 217388, QC Sample No: BD13004 (BD13002, BD13004, BD13005, BD13008, BD13010, BD13011, BD13014, BD13016, BD13017, BD13020)									
<u>Polychlorinated Biphenyls - Soil</u>									
PCB-1016	ND	80	79	1.3	81	76	6.4	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	81	82	1.2	82	78	5.0	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	90	89	89	0.0	87	87	0.0	30 - 150	30
% TCMX (Surrogate Rec)	84	85	84	1.2	85	78	8.6	30 - 150	30
QA/QC Batch 217389, QC Sample No: BD13021 (BD13021)									
<u>Polychlorinated Biphenyls - Soil</u>									
PCB-1016	ND	76	79	3.9	78	78	0.0	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	87	86	1.2	84	87	3.5	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	90	95	93	2.1	91	94	3.2	30 - 150	30
% TCMX (Surrogate Rec)	77	79	81	2.5	82	82	0.0	30 - 150	30

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

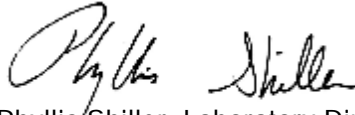
LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference


Phyllis Shiller, Laboratory Director
January 03, 2013

Thursday, January 03, 2013

Requested Criteria: None

State: CT

Sample Criteria Exceedences Report

GBD13002 - GZA-PCB

Page 1 of 1

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** GZA-PCB

Project Location: COMMERCIAL FOUNDRY **Project Number:**

Laboratory Sample ID(s): BD13002, BD13003, BD13004, BD13005, BD13006, BD13007, BD13008, BD13009, BD13010, BD13011, BD13012, BD13013, BD13014, BD13015, BD13016, BD13017, BD13018, BD13019, BD13020, BD13021, BD13022, BD13023, BD13024, BD13025

Sampling Date(s): 12/26/2012

RCP Methods Used:

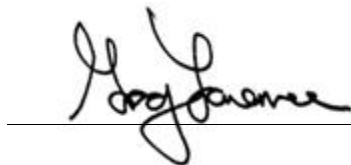
☐ 1311/1312 ☐ 6010 ☐ 7000 ☐ 7196 ☐ 7470/7471 ☐ 8081 ☐ EPH ☐ TO15
☒ 8082 ☐ 8151 ☐ 8260 ☐ 8270 ☐ ETPH ☐ 9010/9012 ☐ VPH

1.	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1a.	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1b.	EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2.	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4.	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5a.	Were reporting limits specified or referenced on the chain-of-custody?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5b.	Were these reporting limits met?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
6.	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

Note: For all questions to which the response was "No" (with the exception of question #5a, #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized
Signature:



Date: Thursday, January 03, 2013
 Printed Name: Greg Lawrence
 Position: Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

January 03, 2013

SDG I.D.: GBD13002

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Au-ecd3 12/31/12-1 (BD13002, BD13004, BD13005, BD13008, BD13017, BD13020, BD13021)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 12/31/2012

Instrument: Au-ecd35 12/31/12-1 (BD13014, BD13016)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 12/31/2012

Instrument: Au-ecd6 12/31/12-1 (BD13010, BD13011)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 12/31/2012

QC Comments: QC Batch 17388 12/28/12 (BD13002, BD13004, BD13005, BD13008, BD13010, BD13011, BD13014, BD13016, BD13017, BD13020)

QC Comments: QC Batch 17389 12/28/12 (BD13021)



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

January 03, 2013

SDG I.D.: GBD13002

QC (Site Specific)

----- Sample No: BD13004, QA/QC Batch: 217388 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 40 - 140 with the following exceptions: None.

All MSD recoveries were within 40 - 140 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: None.

----- Sample No: BD13021, QA/QC Batch: 217389 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 40 - 140 with the following exceptions: None.

All MSD recoveries were within 40 - 140 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: None.

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

Temperature Narration

The samples were received at 6C with cooling initiated.
(Note acceptance criteria is above freezing up to 6°C)

Cooler: Yes ☒ No ☐
 Cooling: Yes ☒ No ☐

Temp 6 °C Pg 1 of 6

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, Manchester, CT 06040
 Email: info@phoenixlabs.com Fax (860) 645-0823
 Client Services (860) 645-8726



Customer: GZA
 Address: 655 Windy Brook Drive
 Glastonbury CT 06033

Project: Commercial Foundry 4336912
 Report to: James Hutton
 Invoice to: GZA

Project P.O.:
 Phone #: 860 286 8900
 Fax #:

Client Sample - Information Identification
 Date: 12/26/12

Sampler's Signature: [Signature]
 Date: 12/26/12

Matrix Code:
 DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
 SE=Sediment SL=Sludge S=Soil/Solid W=Wipe O=Other

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Analysis Request
13002	A12-S-1 (2.5-2.75')	12/26/12	S	1015	X
13003	A12-S-1 (3.5-3.75')			1018	X
13004	A12-S-1 (4.75-5')			1020	X
13005	A12-S-1 (5.75-6')			1022	X
13006	A12-S-1 (6.75-7')			1024	X
13007	A12-S-1 (7.75-8')			1026	X
13008	A12-S-2 (2.5-2.75')			1025	X
13009	A12-S-2 (3.5-3.75')			1027	X
13010	A12-S-2 (4.75-5')			1033	X
13011	A12-S-2 (5.75-6')			1034	X
13012	A12-S-2 (6.75-7')			1035	X
13013	A12-S-2 (7.75-8')			1040	X

Relinquished by: [Signature] Accepted by: [Signature]
 Date: 12/26/12 Time: 1715
 Date: 12/27/12 Time: 1115
 Date: 12/28/12 Time: 1341

RI: ☐ Direct Exposure (Residential) ☐ GW ☐ Other

CT: ☒ RCP Cert ☐ GW Protection ☐ SW Protection ☐ GA Mobility ☐ GB Mobility ☐ Residential DEC ☐ I/C DEC ☐ Other

MA: ☐ MCP Certification ☐ GW-1 ☐ GW-2 ☐ GW-3 ☐ S-1 ☐ S-2 ☐ S-3 ☐ MWRA eSMART ☐ Other

Data Format: ☒ Excel ☒ PDF ☐ GIS/Key ☐ EQUIS ☐ Other

Data Package: ☐ Tier II Checklist ☐ Full Data Package* ☐ Phoenix Std Report ☐ Other

State where samples were collected: CT

* SURCHARGE APPLIES

Comments: Special Requirements or Regulations:
 Freeze Samples on hold



Friday, January 04, 2013

Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Project ID: COMMERCIAL FOUNDRY 43369.82

Sample ID#s: BD13026 - BD13027, BD13032 - BD13033, BD13038, BD13040, BD13042,
BD13044, BD13046, BD13048 - BD13049

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 04, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 11:15
12/27/12 13:41

Laboratory Data

SDG ID: GBD13026
Phoenix ID: BD13026

Project ID: COMMERCIAL FOUNDRY 43369.82
Client ID: A12-S-5 2.5-2.75 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	85		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/28/12	BB/E/D	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.38	mg/kg	12/31/12	AW	3540C/8082
PCB-1221	ND	0.38	mg/kg	12/31/12	AW	3540C/8082
PCB-1232	ND	0.38	mg/kg	12/31/12	AW	3540C/8082
PCB-1242	ND	0.38	mg/kg	12/31/12	AW	3540C/8082
PCB-1248	ND	0.38	mg/kg	12/31/12	AW	3540C/8082
PCB-1254	ND	0.38	mg/kg	12/31/12	AW	3540C/8082
PCB-1260	ND	0.38	mg/kg	12/31/12	AW	3540C/8082
PCB-1262	ND	0.38	mg/kg	12/31/12	AW	3540C/8082
PCB-1268	ND	0.38	mg/kg	12/31/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	104	%	12/31/12	AW	30 - 150 %
% TCMX	86	%	12/31/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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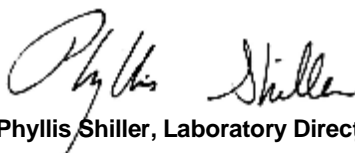
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

January 04, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 04, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 11:18
12/27/12 13:41

Laboratory Data

SDG ID: GBD13026
Phoenix ID: BD13027

Project ID: COMMERCIAL FOUNDRY 43369.82
Client ID: A12-S-5 3.5-3.75 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	79		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/28/12	BB/E/D	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.42	mg/kg	12/31/12	AW	3540C/8082
PCB-1221	ND	0.42	mg/kg	12/31/12	AW	3540C/8082
PCB-1232	ND	0.42	mg/kg	12/31/12	AW	3540C/8082
PCB-1242	ND	0.42	mg/kg	12/31/12	AW	3540C/8082
PCB-1248	ND	0.42	mg/kg	12/31/12	AW	3540C/8082
PCB-1254	ND	0.42	mg/kg	12/31/12	AW	3540C/8082
PCB-1260	ND	0.42	mg/kg	12/31/12	AW	3540C/8082
PCB-1262	ND	0.42	mg/kg	12/31/12	AW	3540C/8082
PCB-1268	ND	0.42	mg/kg	12/31/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	92	%	12/31/12	AW	30 - 150 %
% TCMX	78	%	12/31/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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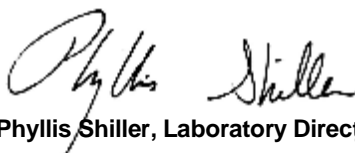
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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Phyllis Shiller, Laboratory Director

January 04, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 04, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 11:30
12/27/12 13:41

Laboratory Data

SDG ID: GBD13026
Phoenix ID: BD13032

Project ID: COMMERCIAL FOUNDRY 43369.82
Client ID: A12-S-6 2.5-2.75 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	93		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/28/12	BB/E/D	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.35	mg/kg	12/31/12	AW	3540C/8082
PCB-1221	ND	0.35	mg/kg	12/31/12	AW	3540C/8082
PCB-1232	ND	0.35	mg/kg	12/31/12	AW	3540C/8082
PCB-1242	ND	0.35	mg/kg	12/31/12	AW	3540C/8082
PCB-1248	ND	0.35	mg/kg	12/31/12	AW	3540C/8082
PCB-1254	ND	0.35	mg/kg	12/31/12	AW	3540C/8082
PCB-1260	ND	0.35	mg/kg	12/31/12	AW	3540C/8082
PCB-1262	ND	0.35	mg/kg	12/31/12	AW	3540C/8082
PCB-1268	ND	0.35	mg/kg	12/31/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	95	%	12/31/12	AW	30 - 150 %
% TCMX	80	%	12/31/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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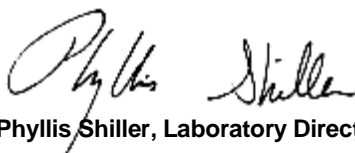
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

January 04, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 04, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 11:33
12/27/12 13:41

Laboratory Data

SDG ID: GBD13026
Phoenix ID: BD13033

Project ID: COMMERCIAL FOUNDRY 43369.82
Client ID: A12-S-6 3.5-3.75 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	84		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/28/12	BB/E/D	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.39	mg/kg	12/31/12	AW	3540C/8082
PCB-1221	ND	0.39	mg/kg	12/31/12	AW	3540C/8082
PCB-1232	ND	0.39	mg/kg	12/31/12	AW	3540C/8082
PCB-1242	ND	0.39	mg/kg	12/31/12	AW	3540C/8082
PCB-1248	ND	0.39	mg/kg	12/31/12	AW	3540C/8082
PCB-1254	ND	0.39	mg/kg	12/31/12	AW	3540C/8082
PCB-1260	ND	0.39	mg/kg	12/31/12	AW	3540C/8082
PCB-1262	ND	0.39	mg/kg	12/31/12	AW	3540C/8082
PCB-1268	ND	0.39	mg/kg	12/31/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	98	%	12/31/12	AW	30 - 150 %
% TCMX	86	%	12/31/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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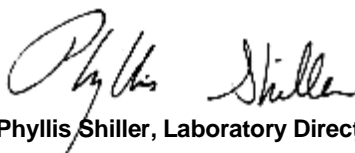
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

January 04, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 04, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 10:45
12/27/12 13:41

Laboratory Data

SDG ID: GBD13026
Phoenix ID: BD13038

Project ID: COMMERCIAL FOUNDRY 43369.82
Client ID: EXT-1 0.5-0.75

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	79		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/28/12	BB/E/D	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.41	mg/kg	01/02/13	AW	3540C/8082
PCB-1221	ND	0.41	mg/kg	01/02/13	AW	3540C/8082
PCB-1232	ND	0.41	mg/kg	01/02/13	AW	3540C/8082
PCB-1242	ND	0.41	mg/kg	01/02/13	AW	3540C/8082
PCB-1248	ND	0.41	mg/kg	01/02/13	AW	3540C/8082
PCB-1254	ND	0.41	mg/kg	01/02/13	AW	3540C/8082
PCB-1260	ND	0.41	mg/kg	01/02/13	AW	3540C/8082
PCB-1262	ND	0.41	mg/kg	01/02/13	AW	3540C/8082
PCB-1268	ND	0.41	mg/kg	01/02/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	100	%	01/02/13	AW	30 - 150 %
% TCMX	84	%	01/02/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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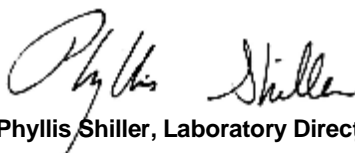
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

January 04, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 04, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 11:00
12/27/12 13:41

Laboratory Data

SDG ID: GBD13026
Phoenix ID: BD13040

Project ID: COMMERCIAL FOUNDRY 43369.82
Client ID: EXT-2 0.5-0.75

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	89		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/28/12	BB/E/D	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.37	mg/kg	12/31/12	AW	3540C/8082
PCB-1221	ND	0.37	mg/kg	12/31/12	AW	3540C/8082
PCB-1232	ND	0.37	mg/kg	12/31/12	AW	3540C/8082
PCB-1242	ND	0.37	mg/kg	12/31/12	AW	3540C/8082
PCB-1248	ND	0.37	mg/kg	12/31/12	AW	3540C/8082
PCB-1254	ND	0.37	mg/kg	12/31/12	AW	3540C/8082
PCB-1260	ND	0.37	mg/kg	12/31/12	AW	3540C/8082
PCB-1262	ND	0.37	mg/kg	12/31/12	AW	3540C/8082
PCB-1268	ND	0.37	mg/kg	12/31/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	103	%	12/31/12	AW	30 - 150 %
% TCMX	98	%	12/31/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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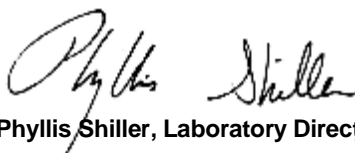
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

January 04, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 04, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 11:10
12/27/12 13:41

Laboratory Data

SDG ID: GBD13026
Phoenix ID: BD13042

Project ID: COMMERCIAL FOUNDRY 43369.82
Client ID: EXT-3 0.5-0.75

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	87		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/28/12	BB/E/D	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.37	mg/kg	01/02/13	AW	3540C/8082
PCB-1221	ND	0.37	mg/kg	01/02/13	AW	3540C/8082
PCB-1232	ND	0.37	mg/kg	01/02/13	AW	3540C/8082
PCB-1242	ND	0.37	mg/kg	01/02/13	AW	3540C/8082
PCB-1248	ND	0.37	mg/kg	01/02/13	AW	3540C/8082
PCB-1254	ND	0.37	mg/kg	01/02/13	AW	3540C/8082
PCB-1260	ND	0.37	mg/kg	01/02/13	AW	3540C/8082
PCB-1262	ND	0.37	mg/kg	01/02/13	AW	3540C/8082
PCB-1268	ND	0.37	mg/kg	01/02/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	96	%	01/02/13	AW	30 - 150 %
% TCMX	86	%	01/02/13	AW	30 - 150 %

Project ID: COMMERCIAL FOUNDRY 43369.82
Client ID: EXT-3 0.5-0.75

Phoenix I.D.: BD13042

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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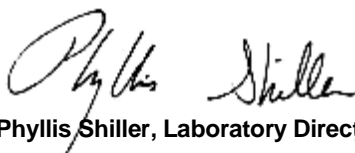
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

January 04, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 04, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 11:18
12/27/12 13:41

Laboratory Data

SDG ID: GBD13026
Phoenix ID: BD13044

Project ID: COMMERCIAL FOUNDRY 43369.82
Client ID: EXT-4 0.5-0.75

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	83		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/28/12	BB/E/D	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.4	mg/kg	12/31/12	AW	3540C/8082
PCB-1221	ND	0.4	mg/kg	12/31/12	AW	3540C/8082
PCB-1232	ND	0.4	mg/kg	12/31/12	AW	3540C/8082
PCB-1242	ND	0.4	mg/kg	12/31/12	AW	3540C/8082
PCB-1248	ND	0.4	mg/kg	12/31/12	AW	3540C/8082
PCB-1254	ND	0.4	mg/kg	12/31/12	AW	3540C/8082
PCB-1260	ND	0.4	mg/kg	12/31/12	AW	3540C/8082
PCB-1262	ND	0.4	mg/kg	12/31/12	AW	3540C/8082
PCB-1268	ND	0.4	mg/kg	12/31/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	106	%	12/31/12	AW	30 - 150 %
% TCMX	106	%	12/31/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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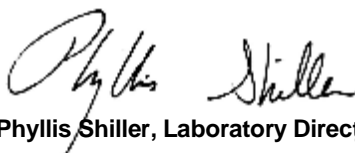
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 04, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 04, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 11:25
12/27/12 13:41

Laboratory Data

SDG ID: GBD13026
Phoenix ID: BD13046

Project ID: COMMERCIAL FOUNDRY 43369.82
Client ID: EXT-5 0.5-0.75

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	83		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/28/12	BB/E/D	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.39	mg/kg	01/02/13	AW	3540C/8082
PCB-1221	ND	0.39	mg/kg	01/02/13	AW	3540C/8082
PCB-1232	ND	0.39	mg/kg	01/02/13	AW	3540C/8082
PCB-1242	ND	0.39	mg/kg	01/02/13	AW	3540C/8082
PCB-1248	*	0.39	mg/kg	01/02/13	AW	3540C/8082
PCB-1254	*	0.39	mg/kg	01/02/13	AW	3540C/8082
PCB-1260	ND	0.39	mg/kg	01/02/13	AW	3540C/8082
PCB-1262	ND	0.39	mg/kg	01/02/13	AW	3540C/8082
PCB-1268	ND	0.39	mg/kg	01/02/13	AW	3540C/8082
Total PCBs	2.6	0.39	mg/kg	01/02/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	88	%	01/02/13	AW	30 - 150 %
% TCMX	86	%	01/02/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

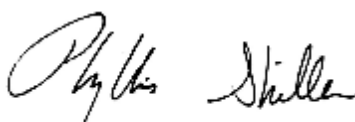
Comments:

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 04, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 04, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 11:40
12/27/12 13:41

Laboratory Data

SDG ID: GBD13026
Phoenix ID: BD13048

Project ID: COMMERCIAL FOUNDRY 43369.82
Client ID: EXT-CATCH BASIN

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	64		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/31/12	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.5	mg/kg	01/02/13	AW	3540C/8082
PCB-1221	ND	0.5	mg/kg	01/02/13	AW	3540C/8082
PCB-1232	ND	0.5	mg/kg	01/02/13	AW	3540C/8082
PCB-1242	ND	0.5	mg/kg	01/02/13	AW	3540C/8082
PCB-1248	*	0.5	mg/kg	01/02/13	AW	3540C/8082
PCB-1254	*	0.5	mg/kg	01/02/13	AW	3540C/8082
PCB-1260	ND	0.5	mg/kg	01/02/13	AW	3540C/8082
PCB-1262	ND	0.5	mg/kg	01/02/13	AW	3540C/8082
PCB-1268	ND	0.5	mg/kg	01/02/13	AW	3540C/8082
Total PCBs	2.2	0.5	mg/kg	01/02/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	98	%	01/02/13	AW	30 - 150 %
% TCMX	92	%	01/02/13	AW	30 - 150 %

Client ID: EXT-CATCH BASIN

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

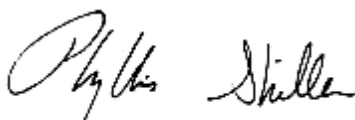
Comments:

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 04, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 04, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 8:45
12/27/12 13:41

Laboratory Data

SDG ID: GBD13026
Phoenix ID: BD13049

Project ID: COMMERCIAL FOUNDRY 43369.82
Client ID: A14-S-14 2.25-25

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	82		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/28/12	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.4	mg/kg	01/02/13	AW	3540C/8082
PCB-1221	ND	0.4	mg/kg	01/02/13	AW	3540C/8082
PCB-1232	ND	0.4	mg/kg	01/02/13	AW	3540C/8082
PCB-1242	ND	0.4	mg/kg	01/02/13	AW	3540C/8082
PCB-1248	ND	0.4	mg/kg	01/02/13	AW	3540C/8082
PCB-1254	ND	0.4	mg/kg	01/02/13	AW	3540C/8082
PCB-1260	ND	0.4	mg/kg	01/02/13	AW	3540C/8082
PCB-1262	ND	0.4	mg/kg	01/02/13	AW	3540C/8082
PCB-1268	ND	0.4	mg/kg	01/02/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	95	%	01/02/13	AW	30 - 150 %
% TCMX	83	%	01/02/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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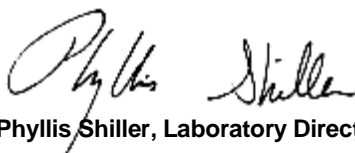
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 04, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

January 04, 2013

QA/QC Data

SDG I.D.: GBD13026

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 217389, QC Sample No: BD13021 (BD13026, BD13027, BD13032, BD13033, BD13038, BD13040, BD13042, BD13044, BD13046)									
<u>Polychlorinated Biphenyls - Soil</u>									
PCB-1016	ND	76	79	3.9	78	78	0.0	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	87	86	1.2	84	87	3.5	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	90	95	93	2.1	91	94	3.2	30 - 150	30
% TCMX (Surrogate Rec)	77	79	81	2.5	82	82	0.0	30 - 150	30
QA/QC Batch 217397, QC Sample No: BD13052 (BD13049)									
<u>Polychlorinated Biphenyls - Soil</u>									
PCB-1016	ND	71	69	2.9				40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	96	89	7.6				40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	100	108	104	3.8				30 - 150	30
% TCMX (Surrogate Rec)	99	104	99	4.9				30 - 150	30
QA/QC Batch 217439, QC Sample No: BD13873 (BD13048)									
<u>Polychlorinated Biphenyls - Soil</u>									
PCB-1016	ND	70	76	8.2	73			40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	76	79	3.9	83			40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	95	92	97	5.3	96			30 - 150	30
% TCMX (Surrogate Rec)	71	79	75	5.2	80			30 - 150	30

QA/QC Data

SDG I.D.: GBD13026

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

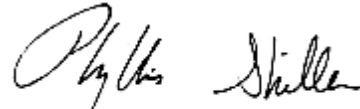
LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference



Phyllis Shiller, Laboratory Director
January 04, 2013

Friday, January 04, 2013

Requested Criteria: None

State: CT

Sample Criteria Exceedences Report

GBD13026 - GZA-PCB

Page 1 of 1

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** GZA-PCB

Project Location: COMMERCIAL FOUNDRY 4336 **Project Number:**

Laboratory Sample ID(s): BD13026, BD13027, BD13028, BD13029, BD13030, BD13031, BD13032, BD13033, BD13034, BD13035, BD13036, BD13037, BD13038, BD13039, BD13040, BD13041, BD13042, BD13043, BD13044, BD13045, BD13046, BD13047, BD13048, BD13049

Sampling Date(s): 12/26/2012

RCP Methods Used:

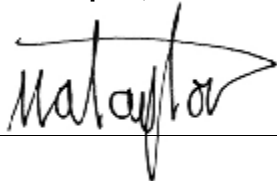
☐ 1311/1312 ☐ 6010 ☐ 7000 ☐ 7196 ☐ 7470/7471 ☐ 8081 ☐ EPH ☐ TO15
☒ 8082 ☐ 8151 ☐ 8260 ☐ 8270 ☐ ETPH ☐ 9010/9012 ☐ VPH

1.	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1a.	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1b.	EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2.	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4.	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5a.	Were reporting limits specified or referenced on the chain-of-custody?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5b.	Were these reporting limits met?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
6.	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA

Note: For all questions to which the response was "No" (with the exception of question #5a, #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized
Signature: _____



Date: Friday, January 04, 2013
Printed Name: Maryam Taylor
Position: Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

January 04, 2013

SDG I.D.: GBD13026

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Au-ecd3 12/31/12-1 (BD13026, BD13027, BD13032, BD13033)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 12/31/2012

Instrument: Au-ecd3 01/02/13-1 (BD13038, BD13042, BD13046, BD13049)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 1/2/2013

Instrument: Au-ecd35 01/02/13-1 (BD13048)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 1/2/2013

Instrument: Au-ecd6 12/31/12-1 (BD13040, BD13044)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

January 04, 2013

SDG ID.: GBD13026

Printed Name Adam Werner
Position: Chemist
Date: 12/31/2012

QC Comments: QC Batch 17389 12/28/12 (BD13026, BD13027, BD13032, BD13033, BD13038, BD13040, BD13042, BD13044, BD13046)

QC Comments: QC Batch 17397 12/28/12 (BD13049)

QC Comments: QC Batch 17439 12/28/12 (BD13048)

QC (Batch Specific)

----- Sample No: BD13021, QA/QC Batch: 217389 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

----- Sample No: BD13052, QA/QC Batch: 217397 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

----- Sample No: BD13873, QA/QC Batch: 217439 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Temperature Narration

The samples were received at 6C with cooling initiated.
(Note acceptance criteria is above freezing up to 6°C)



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

January 04, 2013

SDG LD.: GBD13026



CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Cooler: Yes ☐ No ☒
Coolant: DMF ☒ ICE ☒

Temp 0°C Pg 3 of 6

Data Delivery:

☐ Fax #:

☒ Email: james.hutton@qza.com

Customer: GZA

Address: 655 Winding Brook Drive

Watkinsville GA 30683

Project: Commercial Facility 43369-82

Report to: Jim Hutton

Invoice to: GZA

Project P.O.:

Phone #: 860 286 8900

Fax #:

Client Sample - Information - Identification

Sampler's Signature

Date: 12/26/12

Matrix Code:

DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
SE=Sediment SL=Sludge S=Soil/Solid W=Wipe O=Other

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
13026	A12-S-5(2.5-2.75)	S	12/26/12	1115
13027	A12-S-5(3.5-3.75)			1118
13028	A12-S-5(4.75-5)			1120
13029	A12-S-5(5.75-6)			1122
13030	A12-S-5(6.75-7)			1125
13031	A12-S-5(7.75-8)			1128
13032	A12-S-6(2.5-2.75)			1130
13033	A12-S-6(3.5-3.75)			1133
13034	A12-S-6(4.75-5)			1135
13035	A12-S-6(5.75-6)			1138
13036	A12-S-6(6.75-7)			1140
13037	A12-S-6(7.75-8)			1143

Analysis Request

HAZARDOUS WASTE - MMS SITE

Soil VOA Vials (methanol) H2O
GL Soil container () oz
40 ml VOA Vial () oz
GL Amber 1000ml () oz
PL AS (S) [250ml] [150ml] [100ml]
PL H2SO4 [250ml] [150ml] [100ml]
PL HNO3 250ml
Beaker Bottle

Relinquished by: [Signature]

Accepted by: [Signature]

Date:

Time:

RI

Direct Exposure (Residential)

GW

Other

CT

RCP Cert

GW Protection

SW Protection

GA Mobility

GB Mobility

Residential DEC

I/C DEC

Other

MA

MCP Certification

GW-1

GW-2

GW-3

S-1

S-2

S-3

MWRA eSMART

Other

Data Format

Excel

PDF

GIS/Key

EQUS

Other

Data Package

Tier II Checklist

Full Data Package*

Phoenix Std Report

Other

* SURCHARGE APPLIES

State where samples were collected: CT

* SURCHARGE APPLIES

Turnaround:

1 Day*

2 Days*

3 Days*

Standard

Other

* SURCHARGE APPLIES

Comments: See requirements or Regulations:

FREEZE SAMPLES ON HOLD

Cooler: Yes ☒ No ☐
 Confirmed by: James Kuthan

Temp: 4 °C Pg 4 of 6

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, Manchester, CT 06040
 Email: info@phoenixlabs.com Fax (860) 645-0823
 Client Services (860) 645-8726



Customer: GZA Project: Commuter Facility Project P.O.: 43369.82
 Address: 655 Winding Brook Drive Report to: Jim Kuthan Phone #: 860 286 8900
Glastonbury CT 06033 Invoice to: GZA Fax #: _____

Client Sample Identification
 Sampler's Signature: [Signature] Date: 12/26/12
 Matrix Code: DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
SE=Sediment SL=Sludge S=Soil/Solid W=Wipe O=Other

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Analysis Request
13038	Ext-1 (0.5-0.75)	S	12/26/12	1045	X
13039	Ext-1 (1.75-2)	S		1055	X
13040	Ext-2 (0.5-0.75)	S		1100	X
13041	Ext-2 (1.75-2)	S		1105	X
13042	Ext-3 (0.5-0.75)	S		1110	X
13043	Ext-3 (1.75-2)	S		1115	X
13044	Ext-4 (0.5-0.75)	S		1118	X
13045	Ext-4 (1.75-2)	S		1120	X
13046	Ext-5 (0.5-0.75)	S		1125	X
13047	Ext-5 (1.75-2)	S		1130	X
13048	Ext-Guth Basin SE	S		1140	X
13049	Alu-S-14 (2.25-2.5)	S		0845	X

Relinquished by: [Signature] Accepted by: [Signature]
 Date: 12/26/12 Time: 1715
 Date: 12/27/12 Time: 1115
 Date: 12/27/12 Time: 1347
 Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☒ Standard
☐ Other

Comments, Special Requirements or Regulations:
Freeze samples on hold

State where samples were collected: CT

* SURCHARGE APPLIES

Soil VOA Vials (methanol) 100ml	
GL Sol container (100ml)	
40 ml VOA Vial (100ml)	
GL Amber (100ml)	
PL As (100ml)	
PL H2SO4 (100ml)	
PL HNO3 (250ml)	
PL NaOH (250ml)	
Bacteria Bottle	



Friday, January 04, 2013

Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Project ID: COMMERCIAL FOUNDRY 43369.82
Sample ID#s: BD13050 - BD13053, BD13056, BD13059, BD13062

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 04, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 11:45
12/27/12 13:41

Laboratory Data

SDG ID: GBD13050
Phoenix ID: BD13050

Project ID: COMMERCIAL FOUNDRY 43369.82
Client ID: A14-S-15 2.75-3 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	85		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/28/12	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.39	mg/kg	12/31/12	AW	3540C/8082
PCB-1221	ND	0.39	mg/kg	12/31/12	AW	3540C/8082
PCB-1232	ND	0.39	mg/kg	12/31/12	AW	3540C/8082
PCB-1242	ND	0.39	mg/kg	12/31/12	AW	3540C/8082
PCB-1248	*	0.39	mg/kg	12/31/12	AW	3540C/8082
PCB-1254	ND	0.39	mg/kg	12/31/12	AW	3540C/8082
PCB-1260	ND	0.39	mg/kg	12/31/12	AW	3540C/8082
PCB-1262	ND	0.39	mg/kg	12/31/12	AW	3540C/8082
PCB-1268	ND	0.39	mg/kg	12/31/12	AW	3540C/8082
Total PCBs	1.9	0.39	mg/kg	12/31/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	92	%	12/31/12	AW	30 - 150 %
% TCMX	86	%	12/31/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

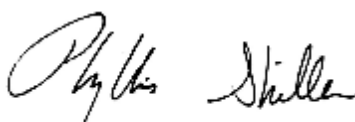
Comments:

* For PCBs, as per section 11.9.3, when weathering of PCBs is present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles aroclor 1248.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 04, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 04, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 11:50
12/27/12 13:41

Laboratory Data

SDG ID: GBD13050
Phoenix ID: BD13051

Project ID: COMMERCIAL FOUNDRY 43369.82
Client ID: A14-S-16 3-3.25 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	88		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/28/12	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	1.8	mg/kg	12/31/12	AW	3540C/8082
PCB-1221	ND	1.8	mg/kg	12/31/12	AW	3540C/8082
PCB-1232	ND	1.8	mg/kg	12/31/12	AW	3540C/8082
PCB-1242	ND	1.8	mg/kg	12/31/12	AW	3540C/8082
PCB-1248	*	1.8	mg/kg	12/31/12	AW	3540C/8082
PCB-1254	ND	1.8	mg/kg	12/31/12	AW	3540C/8082
PCB-1260	ND	1.8	mg/kg	12/31/12	AW	3540C/8082
PCB-1262	ND	1.8	mg/kg	12/31/12	AW	3540C/8082
PCB-1268	ND	1.8	mg/kg	12/31/12	AW	3540C/8082
Total PCBs	24	1.8	mg/kg	12/31/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out	%	12/31/12	AW	30 - 150 %
% TCMX	Diluted Out	%	12/31/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

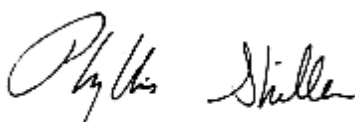
Comments:

* For PCBs, as per section 11.9.3, when weathering of PCBs is present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles aroclor 1248.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

January 04, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 04, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 11:55
12/27/12 13:41

Laboratory Data

SDG ID: GBD13050
Phoenix ID: BD13052

Project ID: COMMERCIAL FOUNDRY 43369.82
Client ID: A14-S-17 3.75-4 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	87		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/28/12	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.37	mg/kg	12/31/12	AW	3540C/8082
PCB-1221	ND	0.37	mg/kg	12/31/12	AW	3540C/8082
PCB-1232	ND	0.37	mg/kg	12/31/12	AW	3540C/8082
PCB-1242	ND	0.37	mg/kg	12/31/12	AW	3540C/8082
PCB-1248	*	0.37	mg/kg	12/31/12	AW	3540C/8082
PCB-1254	ND	0.37	mg/kg	12/31/12	AW	3540C/8082
PCB-1260	ND	0.37	mg/kg	12/31/12	AW	3540C/8082
PCB-1262	ND	0.37	mg/kg	12/31/12	AW	3540C/8082
PCB-1268	ND	0.37	mg/kg	12/31/12	AW	3540C/8082
Total PCBs	2.9	0.37	mg/kg	12/31/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	110	%	12/31/12	AW	30 - 150 %
% TCMX	96	%	12/31/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

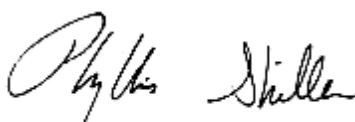
Comments:

* For PCBs, as per section 11.9.3, when weathering of PCBs is present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles aroclor 1248.

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Phyllis Shiller, Laboratory Director

January 04, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 04, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 12:20
12/27/12 13:41

Laboratory Data

SDG ID: GBD13050
Phoenix ID: BD13053

Project ID: COMMERCIAL FOUNDRY 43369.82
Client ID: A14-S-18 4-4.25 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	85		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/28/12	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.39	mg/kg	12/31/12	AW	3540C/8082
PCB-1221	ND	0.39	mg/kg	12/31/12	AW	3540C/8082
PCB-1232	ND	0.39	mg/kg	12/31/12	AW	3540C/8082
PCB-1242	ND	0.39	mg/kg	12/31/12	AW	3540C/8082
PCB-1248	ND	0.39	mg/kg	12/31/12	AW	3540C/8082
PCB-1254	ND	0.39	mg/kg	12/31/12	AW	3540C/8082
PCB-1260	ND	0.39	mg/kg	12/31/12	AW	3540C/8082
PCB-1262	ND	0.39	mg/kg	12/31/12	AW	3540C/8082
PCB-1268	ND	0.39	mg/kg	12/31/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	102	%	12/31/12	AW	30 - 150 %
% TCMX	67	%	12/31/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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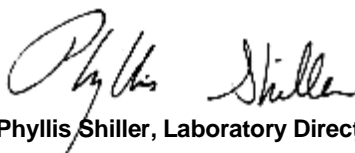
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

January 04, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 04, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 12:45
12/27/12 13:41

Laboratory Data

SDG ID: GBD13050
Phoenix ID: BD13056

Project ID: COMMERCIAL FOUNDRY 43369.82
Client ID: A14-S-19 4-4.25 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	81		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/31/12	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.41	mg/kg	01/02/13	AW	3540C/8082
PCB-1221	ND	0.41	mg/kg	01/02/13	AW	3540C/8082
PCB-1232	ND	0.41	mg/kg	01/02/13	AW	3540C/8082
PCB-1242	ND	0.41	mg/kg	01/02/13	AW	3540C/8082
PCB-1248	ND	0.41	mg/kg	01/02/13	AW	3540C/8082
PCB-1254	ND	0.41	mg/kg	01/02/13	AW	3540C/8082
PCB-1260	ND	0.41	mg/kg	01/02/13	AW	3540C/8082
PCB-1262	ND	0.41	mg/kg	01/02/13	AW	3540C/8082
PCB-1268	ND	0.41	mg/kg	01/02/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	88	%	01/02/13	AW	30 - 150 %
% TCMX	86	%	01/02/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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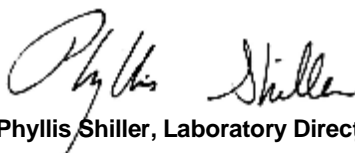
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 04, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 04, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 12:52
12/27/12 13:41

Laboratory Data

SDG ID: GBD13050
Phoenix ID: BD13059

Project ID: COMMERCIAL FOUNDRY 43369.82
Client ID: A14-S-20 4-4.25 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	80		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/28/12	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.42	mg/kg	12/31/12	AW	3540C/8082
PCB-1221	ND	0.42	mg/kg	12/31/12	AW	3540C/8082
PCB-1232	ND	0.42	mg/kg	12/31/12	AW	3540C/8082
PCB-1242	ND	0.42	mg/kg	12/31/12	AW	3540C/8082
PCB-1248	ND	0.42	mg/kg	12/31/12	AW	3540C/8082
PCB-1254	ND	0.42	mg/kg	12/31/12	AW	3540C/8082
PCB-1260	ND	0.42	mg/kg	12/31/12	AW	3540C/8082
PCB-1262	ND	0.42	mg/kg	12/31/12	AW	3540C/8082
PCB-1268	ND	0.42	mg/kg	12/31/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	104	%	12/31/12	AW	30 - 150 %
% TCMX	61	%	12/31/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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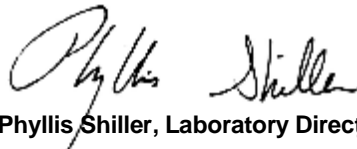
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 04, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 04, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 14:30
12/27/12 13:41

Laboratory Data

SDG ID: GBD13050
Phoenix ID: BD13062

Project ID: COMMERCIAL FOUNDRY 43369.82
Client ID: A14-S-21 2.75-3 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	87		%	12/27/12	JL	E160.3
Extraction for PCB	Completed			12/28/12	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.38	mg/kg	12/31/12	AW	3540C/8082
PCB-1221	ND	0.38	mg/kg	12/31/12	AW	3540C/8082
PCB-1232	ND	0.38	mg/kg	12/31/12	AW	3540C/8082
PCB-1242	ND	0.38	mg/kg	12/31/12	AW	3540C/8082
PCB-1248	ND	0.38	mg/kg	12/31/12	AW	3540C/8082
PCB-1254	ND	0.38	mg/kg	12/31/12	AW	3540C/8082
PCB-1260	ND	0.38	mg/kg	12/31/12	AW	3540C/8082
PCB-1262	ND	0.38	mg/kg	12/31/12	AW	3540C/8082
PCB-1268	ND	0.38	mg/kg	12/31/12	AW	3540C/8082

QA/QC Surrogates

% DCBP	107	%	12/31/12	AW	30 - 150 %
% TCMX	82	%	12/31/12	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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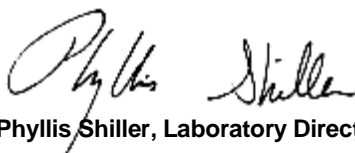
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 04, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

January 04, 2013

QA/QC Data

SDG I.D.: GBD13050

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 217397, QC Sample No: BD13052 (BD13050, BD13051, BD13052, BD13053, BD13059, BD13062)									
<u>Polychlorinated Biphenyls - Soil</u>									
PCB-1016	ND	71	69	2.9				40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	96	89	7.6				40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	100	108	104	3.8				30 - 150	30
% TCMX (Surrogate Rec)	99	104	99	4.9				30 - 150	30
QA/QC Batch 217439, QC Sample No: BD13873 (BD13056)									
<u>Polychlorinated Biphenyls - Soil</u>									
PCB-1016	ND	70	76	8.2	73			40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	76	79	3.9	83			40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	95	92	97	5.3	96			30 - 150	30
% TCMX (Surrogate Rec)	71	79	75	5.2	80			30 - 150	30

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis Shiller, Laboratory Director

January 04, 2013

Friday, January 04, 2013

Requested Criteria: None

State: CT

Sample Criteria Exceedences Report

GBD13050 - GZA-PCB

Page 1 of 1

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** GZA-PCB

Project Location: COMMERCIAL FOUNDRY 4336 **Project Number:**

Laboratory Sample ID(s): BD13050, BD13051, BD13052, BD13053, BD13054, BD13055, BD13056, BD13057, BD13058, BD13059, BD13060, BD13061, BD13062

Sampling Date(s): 12/26/2012

RCP Methods Used:

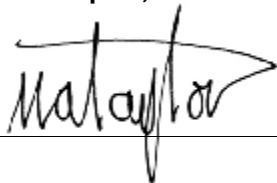
☐ 1311/1312 ☐ 6010 ☐ 7000 ☐ 7196 ☐ 7470/7471 ☐ 8081 ☐ EPH ☐ TO15
☒ 8082 ☐ 8151 ☐ 8260 ☐ 8270 ☐ ETPH ☐ 9010/9012 ☐ VPH

1.	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1a.	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1b.	EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2.	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4.	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5a.	Were reporting limits specified or referenced on the chain-of-custody?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5b.	Were these reporting limits met?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
6.	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA

Note: For all questions to which the response was "No" (with the exception of question #5a, #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized
Signature: _____



Date: Friday, January 04, 2013
Printed Name: Maryam Taylor
Position: Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

January 04, 2013

SDG I.D.: GBD13050

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Au-ecd35 01/02/13-1 (BD13056)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner

Position: Chemist

Date: 1/2/2013

Instrument: Au-ecd6 12/31/12-1 (BD13050, BD13051, BD13052, BD13053, BD13059, BD13062)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner

Position: Chemist

Date: 12/31/2012

QC Comments: QC Batch 17397 12/28/12 (BD13050, BD13051, BD13052, BD13053, BD13059, BD13062)

QC Comments: QC Batch 17439 12/28/12 (BD13056)



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

January 04, 2013

SDG I.D.: GBD13050

QC (Site Specific)

----- Sample No: BD13052, QA/QC Batch: 217397 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

QC (Batch Specific)

----- Sample No: BD13873, QA/QC Batch: 217439 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Temperature Narration

The samples were received at 6C with cooling initiated.
(Note acceptance criteria is above freezing up to 6°C)

Cooler: Yes ☒ No ☐
 Cooling: Yes ☒ No ☐

Temp: 19 °C Pg 5 of 6

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, Manchester, CT 06040
 Email: info@phoenixlabs.com Fax (860) 645-0823
 Client Services (860) 645-8726



Customer: GZA
 Address: 655 Winking Brook Drive
 Glastonbury CT 06033

Project: Commercial Facility 43369.82
 Report to: Jim Hutton
 Invoice to: GZA

Project P.O.:
 Phone #: 860 286 8900
 Fax #:

Client Sample - Information - Identification
 Date: 12/26/12

Sampler's Signature: [Signature]
 Date: 12/26/12

Matrix Code:
 DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
 SE=Sediment SL=Sludge S=Soil/Solid W=Wipe O=Other

PHOENIX USE ONLY	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Analysis Request
13050	A14-S-15(2.75-3)	S	12/26/12	1145	PCB - Mould Swatch
13051	A14-S-16(3-3.25)			1150	
13052	A14-S-17(3.75-4)			1155	
13053	A14-S-18(4-4.25)			1220	
13054	A14-S-19(5-5.25)			1225	
13055	A14-S-20(5.75-6)			1245	
13056	A14-S-19(4-4.25)			1248	
13057	A14-S-19(5-5.25)			1250	
13058	A14-S-19(5.75-6)			1252	
13059	A14-S-20(4-4.25)			1255	
13060	A14-S-20(5-5.25)			1255	
13061	A14-S-20(5.75-6)			1255	

Relinquished by: [Signature] Accepted by: [Signature]
 Date: 12/26/12 Time: 1215
 Date: 12/27/12 Time: 1115
 Date: 12/28/12 Time: 1345

RI: ☐ Direct Exposure (Residential) ☐ GW ☐ Other
 CT: ☒ RCP Cert ☐ GW Protection ☐ SW Protection ☐ GA Mobility ☐ GB Mobility ☐ Residential DEC ☐ I/C DEC ☐ Other
 MA: ☐ MCP Certification ☐ GW-1 ☐ GW-2 ☐ GW-3 ☐ S-1 ☐ S-2 ☐ S-3 ☐ MWRA eSMART ☐ Other
 Data Format: ☒ Excel ☒ PDF ☐ GIS/Key ☐ EQUIS ☐ Other
 Data Package: ☐ Tier II Checklist ☐ Full Data Package* ☐ Phoenix Std Report ☐ Other

State where samples were collected: CT
 * SURCHARGE APPLIES

Comments, Special Requirements or Regulations:
 Freeze Samples on hold



CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Cooler: Yes ☐ No ☒
Coolant: WYS ☐ WYS ☒
Temp 6 °C Pg 6 of 6

Data Delivery:

☐ Fax #:
☒ Email: james.hutton@92a.com

Customer: G2A

Address: 655 Winding Brook Drive
Glastonbury CT 06033

Project: Commercial Property 43369.82

Report to: Jim Hutton

Invoice to: G2A

Project P.O.:

Phone #: 860 286 8900

Fax #:

Client Sample Information - Identification

Sampler's Signature

Date: 12/24/12

Matrix Code:

DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
SE=Sediment SL=Sludge S=Soil/Solid W=Wipe O=Other

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
<u>130602</u>	<u>A14-S-21(2.75-3)</u>	<u>S</u>	<u>12/24/12</u>	<u>1430</u>

Analysis Request

PCB - Ground Surface

Soil VOA Vials [methanol] H2O
GL Soil container () oz
40 ml VOA Vial [] HCl
PL As is [] H2SO4
PL HNO3 250ml [] 1000ml
PL H2SO4 [] 250ml [] 500ml
Bacteria Bottle

Relinquished by:	Accepted by:	Date:	Time:	RI	CT	MA	Data Format	
<u>[Signature]</u>	<u>[Signature]</u>	<u>12/24/12</u>	<u>1235</u>	<input type="checkbox"/> Direct Exposure (Residential) <input type="checkbox"/> GW <input type="checkbox"/> Other	<input checked="" type="checkbox"/> RCP Cert <input type="checkbox"/> GW Protection <input type="checkbox"/> SW Protection <input type="checkbox"/> GA Mobility <input type="checkbox"/> GB Mobility <input type="checkbox"/> Residential DEC <input type="checkbox"/> I/C DEC <input type="checkbox"/> Other	<input type="checkbox"/> MCP Certification <input type="checkbox"/> GW-1 <input type="checkbox"/> GW-2 <input type="checkbox"/> GW-3 <input type="checkbox"/> S-1 <input type="checkbox"/> S-2 <input type="checkbox"/> S-3 <input type="checkbox"/> MWRA eSMART <input type="checkbox"/> Other	<input checked="" type="checkbox"/> Excel <input checked="" type="checkbox"/> PDF <input type="checkbox"/> GIS/Key <input type="checkbox"/> EQUIS <input type="checkbox"/> Other Data Package <input type="checkbox"/> Tier II Checklist <input type="checkbox"/> Full Data Package* <input type="checkbox"/> Phoenix Std Report <input type="checkbox"/> Other	
Turnaround: <input type="checkbox"/> 1 Day* <input type="checkbox"/> 2 Days* <input type="checkbox"/> 3 Days* <input type="checkbox"/> Standard <input type="checkbox"/> Other				State where samples were collected: <u>CT</u>				* SURCHARGE APPLIES

Comments, Special Requirements or Regulations:



Sunday, January 20, 2013

Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Project ID: COMMERCIAL FOUNDRY 43369.82
Sample ID#s: BD13054 - BD13055, BD13057, BD13060

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 20, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 12:25
12/27/12 13:41

Laboratory Data

SDG ID: GBD13050
Phoenix ID: BD13054

Project ID: COMMERCIAL FOUNDRY 43369.82
Client ID: A14-S-18 5-5.25 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	84		%	01/15/13	JL	E160.3
Extraction for PCB	Completed			01/15/13	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.39	mg/kg	01/17/13	AW	3540C/8082
PCB-1221	ND	0.39	mg/kg	01/17/13	AW	3540C/8082
PCB-1232	ND	0.39	mg/kg	01/17/13	AW	3540C/8082
PCB-1242	ND	0.39	mg/kg	01/17/13	AW	3540C/8082
PCB-1248	ND	0.39	mg/kg	01/17/13	AW	3540C/8082
PCB-1254	ND	0.39	mg/kg	01/17/13	AW	3540C/8082
PCB-1260	ND	0.39	mg/kg	01/17/13	AW	3540C/8082
PCB-1262	ND	0.39	mg/kg	01/17/13	AW	3540C/8082
PCB-1268	ND	0.39	mg/kg	01/17/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	77	%	01/17/13	AW	30 - 150 %
% TCMX	86	%	01/17/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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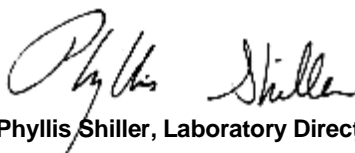
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 20, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 20, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 12:25
12/27/12 13:41

Laboratory Data

SDG ID: GBD13050
Phoenix ID: BD13055

Project ID: COMMERCIAL FOUNDRY 43369.82
Client ID: A14-S-18 5.75-6 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	87		%	01/15/13	JL	E160.3
Extraction for PCB	Completed			01/15/13	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.37	mg/kg	01/17/13	AW	3540C/8082
PCB-1221	ND	0.37	mg/kg	01/17/13	AW	3540C/8082
PCB-1232	ND	0.37	mg/kg	01/17/13	AW	3540C/8082
PCB-1242	ND	0.37	mg/kg	01/17/13	AW	3540C/8082
PCB-1248	ND	0.37	mg/kg	01/17/13	AW	3540C/8082
PCB-1254	ND	0.37	mg/kg	01/17/13	AW	3540C/8082
PCB-1260	ND	0.37	mg/kg	01/17/13	AW	3540C/8082
PCB-1262	ND	0.37	mg/kg	01/17/13	AW	3540C/8082
PCB-1268	ND	0.37	mg/kg	01/17/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	73	%	01/17/13	AW	30 - 150 %
% TCMX	84	%	01/17/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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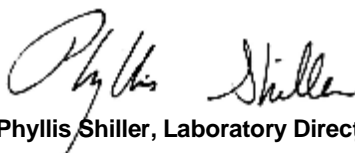
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

January 20, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 20, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 12:48
12/27/12 13:41

Laboratory Data

SDG ID: GBD13050
Phoenix ID: BD13057

Project ID: COMMERCIAL FOUNDRY 43369.82
Client ID: A14-S-19 5-5.25 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	82		%	01/15/13	JL	E160.3
Extraction for PCB	Completed			01/15/13	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.4	mg/kg	01/17/13	AW	3540C/8082
PCB-1221	ND	0.4	mg/kg	01/17/13	AW	3540C/8082
PCB-1232	ND	0.4	mg/kg	01/17/13	AW	3540C/8082
PCB-1242	ND	0.4	mg/kg	01/17/13	AW	3540C/8082
PCB-1248	ND	0.4	mg/kg	01/17/13	AW	3540C/8082
PCB-1254	ND	0.4	mg/kg	01/17/13	AW	3540C/8082
PCB-1260	ND	0.4	mg/kg	01/17/13	AW	3540C/8082
PCB-1262	ND	0.4	mg/kg	01/17/13	AW	3540C/8082
PCB-1268	ND	0.4	mg/kg	01/17/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	76	%	01/17/13	AW	30 - 150 %
% TCMX	81	%	01/17/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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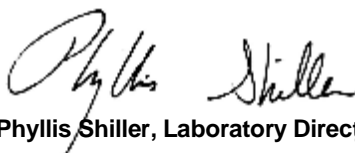
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

January 20, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 20, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

12/26/12 12:55
12/27/12 13:41

Laboratory Data

SDG ID: GBD13050
Phoenix ID: BD13060

Project ID: COMMERCIAL FOUNDRY 43369.82
Client ID: A14-S-20 5-5.25 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	83		%	01/15/13	JL	E160.3
Extraction for PCB	Completed			01/15/13	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.4	mg/kg	01/17/13	AW	3540C/8082
PCB-1221	ND	0.4	mg/kg	01/17/13	AW	3540C/8082
PCB-1232	ND	0.4	mg/kg	01/17/13	AW	3540C/8082
PCB-1242	ND	0.4	mg/kg	01/17/13	AW	3540C/8082
PCB-1248	ND	0.4	mg/kg	01/17/13	AW	3540C/8082
PCB-1254	ND	0.4	mg/kg	01/17/13	AW	3540C/8082
PCB-1260	ND	0.4	mg/kg	01/17/13	AW	3540C/8082
PCB-1262	ND	0.4	mg/kg	01/17/13	AW	3540C/8082
PCB-1268	ND	0.4	mg/kg	01/17/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	72	%	01/17/13	AW	30 - 150 %
% TCMX	88	%	01/17/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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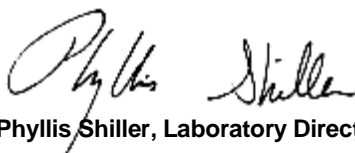
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 20, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

January 20, 2013

QA/QC Data

SDG I.D.: GBD13050

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 218604, QC Sample No: BD12683 (BD13054, BD13055, BD13057, BD13060)									
<u>Polychlorinated Biphenyls - Soil</u>									
PCB-1016	ND	85	84	1.2	86	83	3.6	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	82	83	1.2	83	79	4.9	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	77	78	77	1.3	77	73	5.3	30 - 150	30
% TCMX (Surrogate Rec)	66	88	84	4.7	91	90	1.1	30 - 150	30
QA/QC Batch 217397, QC Sample No: BD13052 (BD13050, BD13051, BD13052, BD13053, BD13059, BD13062)									
<u>Polychlorinated Biphenyls - Soil</u>									
PCB-1016	ND	71	69	2.9				40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	96	89	7.6				40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	100	108	104	3.8				30 - 150	30
% TCMX (Surrogate Rec)	99	104	99	4.9				30 - 150	30
QA/QC Batch 217439, QC Sample No: BD13873 (BD13056)									
<u>Polychlorinated Biphenyls - Soil</u>									
PCB-1016	ND	70	76	8.2	73			40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	76	79	3.9	83			40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	95	92	97	5.3	96			30 - 150	30
% TCMX (Surrogate Rec)	71	79	75	5.2	80			30 - 150	30

QA/QC Data

SDG I.D.: GBD13050

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
-----------	-------	----------	-----------	------------	---------	----------	-----------	--------------------	--------------------

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

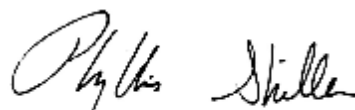
LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference



Phyllis Shiller, Laboratory Director

January 20, 2013

Sunday, January 20, 2013

Requested Criteria: None

State: CT

Sample Criteria Exceedences Report

GBD13050 - GZA-PCB

Page 1 of 1

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
--------	-------	-----------------	----------	--------	----	----------	----------------	-------------------

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** GZA-PCB

Project Location: COMMERCIAL FOUNDRY 4336 **Project Number:**

Laboratory Sample ID(s): BD13050, BD13051, BD13052, BD13053, BD13054, BD13055, BD13056, BD13057, BD13058, BD13059, BD13060, BD13061, BD13062

Sampling Date(s): 12/26/2012

RCP Methods Used:

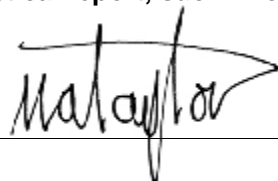
☐ 1311/1312 ☐ 6010 ☐ 7000 ☐ 7196 ☐ 7470/7471 ☐ 8081 ☐ EPH ☐ TO15
☒ 8082 ☐ 8151 ☐ 8260 ☐ 8270 ☐ ETPH ☐ 9010/9012 ☐ VPH

1.	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1a.	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1b.	EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2.	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4.	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5a.	Were reporting limits specified or referenced on the chain-of-custody?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5b.	Were these reporting limits met?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
6.	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA

Note: For all questions to which the response was "No" (with the exception of question #5a, #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized
Signature:



Date: Sunday, January 20, 2013

Printed Name: Maryam Taylor

Position: Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

January 20, 2013

SDG ID.: GBD13050

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Au-ecd35 01/02/13-1 (BD13056)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner

Position: Chemist

Date: 1/2/2013

Instrument: Au-ecd35 01/17/13-1 (BD13054, BD13055, BD13057, BD13060)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner

Position: Chemist

Date: 1/17/2013

Instrument: Au-ecd6 12/31/12-1 (BD13050, BD13051, BD13052, BD13053, BD13059, BD13062)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner

Position: Chemist

Date: 12/31/2012

QC Comments: QC Batch 17397 12/28/12 (BD13050, BD13051, BD13052, BD13053, BD13059, BD13062)

QC Comments: QC Batch 17439 12/28/12 (BD13056)



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587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
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RCP Certification Report

January 20, 2013

SDG I.D.: GBD13050

QC Comments: QC Batch 18604 01/15/13 (BD13054, BD13055, BD13057, BD13060)

QC (Site Specific)

----- Sample No: BD13052, QA/QC Batch: 217397 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

QC (Batch Specific)

----- Sample No: BD12683, QA/QC Batch: 218604 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

----- Sample No: BD13873, QA/QC Batch: 217439 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Temperature Narration

The samples were received at 6C with cooling initiated.
(Note acceptance criteria is above freezing up to 6°C)

Cooler: Yes ☒ No ☐
 Cooling: Yes ☒ No ☐

Temp: 19 °C Pg 5 of 6

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, Manchester, CT 06040
 Email: info@phoenixlabs.com Fax (860) 645-0823
 Client Services (860) 645-8726



Customer: GZA
 Address: 655 Winking Brook Drive
 Glastonbury CT 06033

Project: Commercial Facility 43369.82
 Report to: Jim Hutton
 Invoice to: GZA

Project P.O.:
 Phone #: 860 286 8900
 Fax #:

Client Sample - Information - Identification
 Date: 12/26/12

Sampler's Signature: [Signature]
 Date: 12/26/12

Matrix Code:
 DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
 SE=Sediment SL=Sludge S=Soil/Solid W=Wipe O=Other

PHOENIX USE ONLY	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Analysis Request
13050	A14-S-15(2.75-3)	S	12/26/12	1145	PCB - Mould Swab
13051	A14-S-16(3-3.25)			1150	
13052	A14-S-17(3.75-4)			1155	
13053	A14-S-18(4-4.25)			1220	
13054	A14-S-19(5-5.25)			1225	
13055	A14-S-20(5.75-6)			1245	
13056	A14-S-19(4-4.25)			1248	
13057	A14-S-19(5-5.25)			1250	
13058	A14-S-19(5.75-6)			1252	
13059	A14-S-20(4-4.25)			1255	
13060	A14-S-20(5-5.25)			1255	
13061	A14-S-20(5.75-6)			1255	

Relinquished by: [Signature] Accepted by: [Signature]
 Date: 12/26/12 Time: 1215
 Date: 12/27/12 Time: 1115
 Date: 12/28/12 Time: 1345

RI: ☐ Direct Exposure (Residential) ☐ GW ☐ Other
 CT: ☒ RCP Cert ☐ GW Protection ☐ SW Protection ☐ GA Mobility ☐ GB Mobility ☐ Residential DEC ☐ I/C DEC ☐ Other
 MA: ☐ MCP Certification ☐ GW-1 ☐ GW-2 ☐ GW-3 ☐ S-1 ☐ S-2 ☐ S-3 ☐ MWRA eSMART ☐ Other
 Data Format: ☒ Excel ☒ PDF ☐ GIS/Key ☐ EQUIS ☐ Other
 Data Package: ☐ Tier II Checklist ☐ Full Data Package* ☐ Phoenix Std Report ☐ Other

State where samples were collected: CT
 * SURCHARGE APPLIES

Comments, Special Requirements or Regulations:
 Freeze Samples on hold



CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Cooler: Yes ☐ No ☒
Coolant: WYS ☐ WYS ☒
Temp 6 °C Pg 6 of 6

Data Delivery:

☐ Fax #:
☒ Email: james.hutton@92a.com

Customer: G2A

Address: 655 Winding Brook Drive
Glastonbury CT 06033

Project: Commercial Property 43369.82

Report to: Jim Hutton

Invoice to: G2A

Project P.O.:

Phone #: 860 286 8900

Fax #:

Client Sample Information - Identification

Sampler's Signature

Date: 12/24/12

Matrix Code:

DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
SE=Sediment SL=Sludge S=Soil/Solid W=Wipe O=Other

PHOENIX USE ONLY
SAMPLE # 13062 Customer Sample Identification A14-S-21(2.75-3) S Date Sampled 12/24/12 Time Sampled 1430

Analysis Request

PCB - Ground Surface

Soil VOA Vials (methanol) 1oz
GL Soil container (1oz)
GL Amber 1000ml 1/4s [HCl]
PL AS is [1250ml] 1500ml 1000ml
PL HNO3 250ml
Bacteria Bottle

Relinquished by:

Accepted by:

Date:

Time:

RI

Direct Exposure (Residential)

GW

Other

CT

RCP Cert

GW Protection

SW Protection

GA Mobility

GB Mobility

Residential DEC

I/C DEC

Other

MA

MCP Certification

GW-1

GW-2

GW-3

S-1

S-2

S-3

MWRA eSMART

Other

Data Format

Excel

PDF

GIS/Key

EQUIS

Other

Data Package

Tier II Checklist

Full Data Package*

Phoenix Std Report

Other

* SURCHARGE APPLIES

State where samples were collected: CT

* SURCHARGE APPLIES

Turnaround:

1 Day*

2 Days*

3 Days*

Standard

Other

* SURCHARGE APPLIES

Comments, Special Requirements or Regulations:

13050
13701
13725

Bobbi - Phoenixlabs

From: Benjamin Graham [Benjamin.Graham@gza.com]

Sent: Tuesday, January 15, 2013 8:20 AM

To: bobbi@phoenixlabs.com

Cc: James Hutton

Subject: commercial foundry additional samples

Hi Bobbi. I would like to run some additional samples from our Commercial Foundry job (43369.82). Could you run concrete floor samples for PCBs by manual soxhlet for the following samples you have on hold:

A3-F-1 (0.5-1") - 13701
A3-F-3 (0.5-1") - 13703
A3-F-4(0.5-1") - 13704
A3-F-5(0.5-1") - 13705
A4-F-1(0.5-1") - 13706
A4-F-6(0.5-1") - 13711
A4-F-7(0.5-1") - 13712
A5-F-1(0.5-1") - 13713
A5-F-2(0.5-1") - 13714
A5-F-3(0.5-1") - 13715
A5-F-4(0.5-1") - 13716
A5-F-5(0.5-1") - 13717
A10-F-1(0.5-1") - 13718
A10-F-3(0.5-1") - 13720
A10-F-6(0.5-1") - 13723
A10-F-7(0.5-1") - 13724
A10-F-11(0.5-1") - 13728
A10-F-12(0.5-1") - 13729
A10-F-15(0.5-1") - 13732
A10-F-16(0.5-1") - 13733
A10-F-17(0.5-1") - 13734
A10-F-18(0.5-1") - 13735
A10-F-19(0.5-1") - 13736
A10-F-20(0.5-1") - 13737
A14-F-5(0.5-1") - 1344 13741

Thank you. Please give myself or Jim Hutton a call with any questions.

Benjamin A. Graham
Environmental Scientist
GZA GeoEnvironmental Inc.
655 Winding Brook Drive, Suite 402
Glastonbury CT 06033
Office: (860) 858-3129
Cell: (860)227-6971
Fax: (860)652-8590

1/15/2013

15050
13701
13725
Bobbi - Phoenixlabs

From: Benjamin Graham [Benjamin.Graham@gza.com]

Sent: Tuesday, January 15, 2013 9:42 AM

To: bobbi@phoenixlabs.com

Cc: James Hutton

Subject: more comm foundry add ons (43369.82)

Bobbi, could we also run:

13054 13055 13057 13060
A14-S-18 (5-5.25') & (5.75-6'), A14-S-19 (5-5.25') and A14-S-20 (5-5.25') for PCBs by Manual Soxhlet

12683
A1-S-4 (0-6") for PAHs and ETPH

A1-S-6 (0-2') for PAHs
13875

Thanks again!

Benjamin A. Graham
Environmental Scientist
GZA GeoEnvironmental Inc.
655 Winding Brook Drive, Suite 402
Glastonbury CT 06033
Office: (860) 858-3129
Cell: (860)227-6971
Fax: (860)652-8590



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For information about GZA GeoEnvironmental, Inc. and its services, please visit our website at www.gza.com.

1/15/2013



Monday, January 07, 2013

Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Project ID: COMMERCIAL FOUNDRY
Sample ID#s: BD13680 - BD13689

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 07, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/27/12 9:30
12/28/12 15:20

Laboratory Data

SDG ID: GBD13680
Phoenix ID: BD13680

Project ID: COMMERCIAL FOUNDRY
Client ID: A10-PW-1

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	12/31/12	SW	E160.3
Extraction for PCB	Completed			12/28/12	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	2	mg/kg	01/04/13	AW	3540C/8082
PCB-1221	ND	2	mg/kg	01/04/13	AW	3540C/8082
PCB-1232	ND	2	mg/kg	01/04/13	AW	3540C/8082
PCB-1242	ND	2	mg/kg	01/04/13	AW	3540C/8082
PCB-1248	*	2	mg/kg	01/04/13	AW	3540C/8082
PCB-1254	*	2	mg/kg	01/04/13	AW	3540C/8082
PCB-1260	ND	2	mg/kg	01/04/13	AW	3540C/8082
PCB-1262	ND	2	mg/kg	01/04/13	AW	3540C/8082
PCB-1268	ND	2	mg/kg	01/04/13	AW	3540C/8082
Total PCBs	16	2	mg/kg	01/04/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	116	%	01/04/13	AW	30 - 150 %
% TCMX	112	%	01/04/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
-----------	--------	------------	-------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

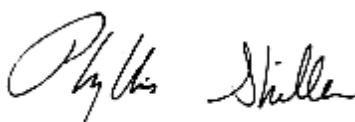
%SOLIDS ASSUMED 100%

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 07, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 07, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/27/12 10:15
12/28/12 15:20

Laboratory Data

SDG ID: GBD13680
Phoenix ID: BD13681

Project ID: COMMERCIAL FOUNDRY
Client ID: A10-PW-2

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	12/31/12	SW	E160.3
Extraction for PCB	Completed			12/28/12	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	3	mg/kg	01/02/13	AW	3540C/8082
PCB-1221	ND	3	mg/kg	01/02/13	AW	3540C/8082
PCB-1232	ND	3	mg/kg	01/02/13	AW	3540C/8082
PCB-1242	ND	3	mg/kg	01/02/13	AW	3540C/8082
PCB-1248	*	3	mg/kg	01/02/13	AW	3540C/8082
PCB-1254	*	3	mg/kg	01/02/13	AW	3540C/8082
PCB-1260	ND	3	mg/kg	01/02/13	AW	3540C/8082
PCB-1262	ND	3	mg/kg	01/02/13	AW	3540C/8082
PCB-1268	ND	3	mg/kg	01/02/13	AW	3540C/8082
Total PCBs	37	3	mg/kg	01/02/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	88	%	01/02/13	AW	30 - 150 %
% TCMX	83	%	01/02/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
-----------	--------	------------	-------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

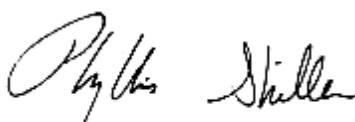
%SOLIDS ASSUMED 100%

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 07, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 07, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/27/12 10:45
12/28/12 15:20

Laboratory Data

SDG ID: GBD13680
Phoenix ID: BD13682

Project ID: COMMERCIAL FOUNDRY
Client ID: A10-PW-3

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	12/31/12	SW	E160.3
Extraction for PCB	Completed			12/28/12	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	8	mg/kg	01/03/13	AW	3540C/8082
PCB-1221	ND	8	mg/kg	01/03/13	AW	3540C/8082
PCB-1232	ND	8	mg/kg	01/03/13	AW	3540C/8082
PCB-1242	ND	8	mg/kg	01/03/13	AW	3540C/8082
PCB-1248	*	8	mg/kg	01/03/13	AW	3540C/8082
PCB-1254	ND	8	mg/kg	01/03/13	AW	3540C/8082
PCB-1260	ND	8	mg/kg	01/03/13	AW	3540C/8082
PCB-1262	ND	8	mg/kg	01/03/13	AW	3540C/8082
PCB-1268	ND	8	mg/kg	01/03/13	AW	3540C/8082
Total PCBs	36	8	mg/kg	01/03/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out	%	01/03/13	AW	30 - 150 %
% TCMX	Diluted Out	%	01/03/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

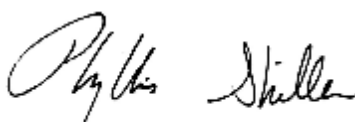
%SOLIDS ASSUMED 100%

* For PCBs, as per section 11.9.3, when weathering of PCBs is present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles aroclor 1248.

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Phyllis Shiller, Laboratory Director

January 07, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 07, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/27/12 11:00
12/28/12 15:20

Laboratory Data

SDG ID: GBD13680
Phoenix ID: BD13683

Project ID: COMMERCIAL FOUNDRY
Client ID: A10-PW-4

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	12/31/12	SW	E160.3
Extraction for PCB	Completed			12/28/12	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	14	mg/kg	01/03/13	AW	3540C/8082
PCB-1221	ND	14	mg/kg	01/03/13	AW	3540C/8082
PCB-1232	ND	14	mg/kg	01/03/13	AW	3540C/8082
PCB-1242	ND	14	mg/kg	01/03/13	AW	3540C/8082
PCB-1248	*	14	mg/kg	01/03/13	AW	3540C/8082
PCB-1254	ND	14	mg/kg	01/03/13	AW	3540C/8082
PCB-1260	ND	14	mg/kg	01/03/13	AW	3540C/8082
PCB-1262	ND	14	mg/kg	01/03/13	AW	3540C/8082
PCB-1268	ND	14	mg/kg	01/03/13	AW	3540C/8082
Total PCBs	52	14	mg/kg	01/03/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out	%	01/03/13	AW	30 - 150 %
% TCMX	Diluted Out	%	01/03/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

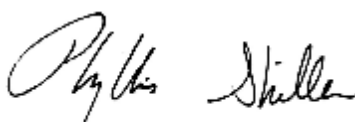
%SOLIDS ASSUMED 100%

* For PCBs, as per section 11.9.3, when weathering of PCBs is present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles aroclor 1248.

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Phyllis Shiller, Laboratory Director

January 07, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 07, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/27/12 12:00
12/28/12 15:20

Laboratory Data

SDG ID: GBD13680
Phoenix ID: BD13684

Project ID: COMMERCIAL FOUNDRY
Client ID: A10-PW-6

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	12/31/12	SW	E160.3
Extraction for PCB	Completed			12/28/12	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	9.2	mg/kg	01/03/13	AW	3540C/8082
PCB-1221	ND	9.2	mg/kg	01/03/13	AW	3540C/8082
PCB-1232	ND	9.2	mg/kg	01/03/13	AW	3540C/8082
PCB-1242	ND	9.2	mg/kg	01/03/13	AW	3540C/8082
PCB-1248	38	9.2	mg/kg	01/03/13	AW	3540C/8082
PCB-1254	ND	9.2	mg/kg	01/03/13	AW	3540C/8082
PCB-1260	ND	9.2	mg/kg	01/03/13	AW	3540C/8082
PCB-1262	ND	9.2	mg/kg	01/03/13	AW	3540C/8082
PCB-1268	ND	9.2	mg/kg	01/03/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out	%	01/03/13	AW	30 - 150 %
% TCMX	Diluted Out	%	01/03/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

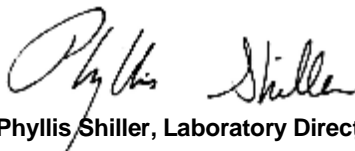
Comments:

%SOLIDS ASSUMED 100%

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Phyllis Shiller, Laboratory Director

January 07, 2013

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Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 07, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/27/12 12:25
12/28/12 15:20

Laboratory Data

SDG ID: GBD13680
Phoenix ID: BD13685

Project ID: COMMERCIAL FOUNDRY
Client ID: A10-PW-5

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	12/31/12	SW	E160.3
Extraction for PCB	Completed			12/31/12	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	3.2	mg/kg	01/04/13	AW	3540C/8082
PCB-1221	ND	3.2	mg/kg	01/04/13	AW	3540C/8082
PCB-1232	ND	3.2	mg/kg	01/04/13	AW	3540C/8082
PCB-1242	ND	3.2	mg/kg	01/04/13	AW	3540C/8082
PCB-1248	*	3.2	mg/kg	01/04/13	AW	3540C/8082
PCB-1254	*	3.2	mg/kg	01/04/13	AW	3540C/8082
PCB-1260	ND	3.2	mg/kg	01/04/13	AW	3540C/8082
PCB-1262	ND	3.2	mg/kg	01/04/13	AW	3540C/8082
PCB-1268	ND	3.2	mg/kg	01/04/13	AW	3540C/8082
Total PCBs	32	3.2	mg/kg	01/04/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	112	%	01/04/13	AW	30 - 150 %
% TCMX	108	%	01/04/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

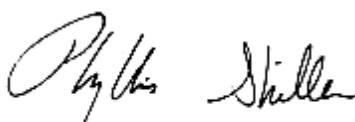
%SOLIDS ASSUMED 100%

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254.

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Phyllis Shiller, Laboratory Director

January 07, 2013

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Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 07, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/27/12 12:45
12/28/12 15:20

Laboratory Data

SDG ID: GBD13680
Phoenix ID: BD13686

Project ID: COMMERCIAL FOUNDRY
Client ID: A10-PW-7

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	12/31/12	SW	E160.3
Extraction for PCB	Completed			12/31/12	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.72	mg/kg	01/02/13	AW	3540C/8082
PCB-1221	ND	0.72	mg/kg	01/02/13	AW	3540C/8082
PCB-1232	ND	0.72	mg/kg	01/02/13	AW	3540C/8082
PCB-1242	ND	0.72	mg/kg	01/02/13	AW	3540C/8082
PCB-1248	*	0.72	mg/kg	01/02/13	AW	3540C/8082
PCB-1254	*	0.72	mg/kg	01/02/13	AW	3540C/8082
PCB-1260	ND	0.72	mg/kg	01/02/13	AW	3540C/8082
PCB-1262	ND	0.72	mg/kg	01/02/13	AW	3540C/8082
PCB-1268	ND	0.72	mg/kg	01/02/13	AW	3540C/8082
Total PCBs	1.2	0.72	mg/kg	01/02/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	92	%	01/02/13	AW	30 - 150 %
% TCMX	84	%	01/02/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

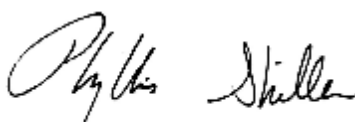
%SOLIDS ASSUMED 100%

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254.

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Phyllis Shiller, Laboratory Director

January 07, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 07, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/27/12 13:00
12/28/12 15:20

Laboratory Data

SDG ID: GBD13680
Phoenix ID: BD13687

Project ID: COMMERCIAL FOUNDRY
Client ID: A10-PW-8

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	12/31/12	SW	E160.3
Extraction for PCB	Completed			12/31/12	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	3.4	mg/kg	01/02/13	AW	3540C/8082
PCB-1221	ND	3.4	mg/kg	01/02/13	AW	3540C/8082
PCB-1232	ND	3.4	mg/kg	01/02/13	AW	3540C/8082
PCB-1242	ND	3.4	mg/kg	01/02/13	AW	3540C/8082
PCB-1248	*	3.4	mg/kg	01/02/13	AW	3540C/8082
PCB-1254	*	3.4	mg/kg	01/02/13	AW	3540C/8082
PCB-1260	ND	3.4	mg/kg	01/02/13	AW	3540C/8082
PCB-1262	ND	3.4	mg/kg	01/02/13	AW	3540C/8082
PCB-1268	ND	3.4	mg/kg	01/02/13	AW	3540C/8082
Total PCBs	24	3.4	mg/kg	01/02/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out	%	01/02/13	AW	30 - 150 %
% TCMX	Diluted Out	%	01/02/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

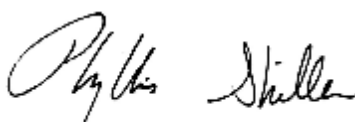
%SOLIDS ASSUMED 100%

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254.

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Phyllis Shiller, Laboratory Director

January 07, 2013

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Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 07, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

12/27/12

Time

13:20

12/28/12

15:20

Laboratory Data

SDG ID: GBD13680
Phoenix ID: BD13688

Project ID: COMMERCIAL FOUNDRY
Client ID: A10-PW-9

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	12/31/12	SW	E160.3
Extraction for PCB	Completed			12/31/12	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	1.9	mg/kg	01/04/13	AW	3540C/8082
PCB-1221	ND	1.9	mg/kg	01/04/13	AW	3540C/8082
PCB-1232	ND	1.9	mg/kg	01/04/13	AW	3540C/8082
PCB-1242	ND	1.9	mg/kg	01/04/13	AW	3540C/8082
PCB-1248	*	1.9	mg/kg	01/04/13	AW	3540C/8082
PCB-1254	*	1.9	mg/kg	01/04/13	AW	3540C/8082
PCB-1260	ND	1.9	mg/kg	01/04/13	AW	3540C/8082
PCB-1262	ND	1.9	mg/kg	01/04/13	AW	3540C/8082
PCB-1268	ND	1.9	mg/kg	01/04/13	AW	3540C/8082
Total PCBs	26	1.9	mg/kg	01/04/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	114	%	01/04/13	AW	30 - 150 %
% TCMX	106	%	01/04/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

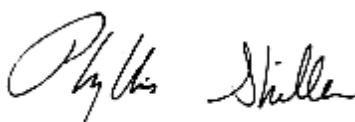
%SOLIDS ASSUMED 100%

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254.

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Phyllis Shiller, Laboratory Director

January 07, 2013

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Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 07, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/27/12 14:30
12/28/12 15:20

Laboratory Data

SDG ID: GBD13680
Phoenix ID: BD13689

Project ID: COMMERCIAL FOUNDRY
Client ID: A10-PW-10

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	12/31/12	SW	E160.3
Extraction for PCB	Completed			12/31/12	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	8	mg/kg	01/04/13	AW	3540C/8082
PCB-1221	ND	8	mg/kg	01/04/13	AW	3540C/8082
PCB-1232	ND	8	mg/kg	01/04/13	AW	3540C/8082
PCB-1242	ND	8	mg/kg	01/04/13	AW	3540C/8082
PCB-1248	*	8	mg/kg	01/04/13	AW	3540C/8082
PCB-1254	ND	8	mg/kg	01/04/13	AW	3540C/8082
PCB-1260	ND	8	mg/kg	01/04/13	AW	3540C/8082
PCB-1262	ND	8	mg/kg	01/04/13	AW	3540C/8082
PCB-1268	ND	8	mg/kg	01/04/13	AW	3540C/8082
Total PCBs	45	8	mg/kg	01/04/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out	%	01/04/13	AW	30 - 150 %
% TCMX	Diluted Out	%	01/04/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

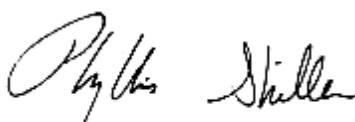
%SOLIDS ASSUMED 100%

* For PCBs, as per section 11.9.3, when weathering of PCBs is present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles aroclor 1248.

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Phyllis Shiller, Laboratory Director

January 07, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President



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587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

January 07, 2013

QA/QC Data

SDG I.D.: GBD13680

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 217438, QC Sample No: BD13685 (BD13685, BD13686, BD13687, BD13688, BD13689)									
<u>Polychlorinated Biphenyls - Solid</u>									
PCB-1016	ND	94	85	10.1				40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	98	91	7.4				40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	83	90	86	4.5				30 - 150	30
% TCMX (Surrogate Rec)	81	92	86	6.7				30 - 150	30

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

QA/QC Batch 217417, QC Sample No: BD14004 (BD13680, BD13681, BD13682, BD13683, BD13684)

Polychlorinated Biphenyls - Solid

PCB-1016	ND	77	82	6.3	73	73	0.0	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	78	80	2.5	73	76	4.0	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	83	85	88	3.5	81	81	0.0	30 - 150	30
% TCMX (Surrogate Rec)	83	84	87	3.5	82	81	1.2	30 - 150	30

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

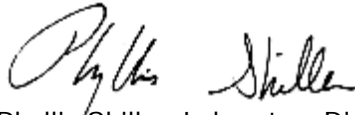
LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference


Phyllis Shiller, Laboratory Director
January 07, 2013

Monday, January 07, 2013

Requested Criteria: None

State: CT

Sample Criteria Exceedences Report

GBD13680 - GZA-PCB

Page 1 of 1

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
--------	-------	-----------------	----------	--------	----	----------	----------------	-------------------

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** GZA-PCB
Project Location: COMMERCIAL FOUNDRY **Project Number:**
Laboratory Sample ID(s): BD13680, BD13681, BD13682, BD13683, BD13684, BD13685, BD13686,
 BD13687, BD13688, BD13689

Sampling Date(s): 12/27/2012

RCP Methods Used:

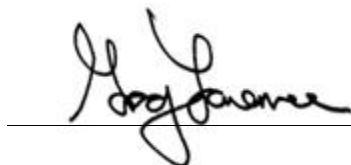
☐ 1311/1312 ☐ 6010 ☐ 7000 ☐ 7196 ☐ 7470/7471 ☐ 8081 ☐ EPH ☐ TO15
☒ 8082 ☐ 8151 ☐ 8260 ☐ 8270 ☐ ETPH ☐ 9010/9012 ☐ VPH

1.	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1a.	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1b.	EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2.	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4.	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5a.	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5b.	Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
6.	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA

Note: For all questions to which the response was "No" (with the exception of question #5a, #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized
Signature:



Date: Monday, January 07, 2013
 Printed Name: Greg Lawrence
 Position: Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

January 07, 2013

SDG I.D.: GBD13680

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Au-ecd1 01/04/13-1 (BD13680, BD13685, BD13688)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 1/4/2013

Instrument: Au-ecd3 01/02/13-1 (BD13681, BD13686)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 1/2/2013

Instrument: Au-ecd35 01/02/13-1 (BD13685, BD13687, BD13688)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 1/2/2013

Instrument: Au-ecd35 01/03/13-1 (BD13682, BD13683, BD13684, BD13686)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none



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RCP Certification Report

January 07, 2013

SDG I.D.: GBD13680

Printed Name Adam Werner
Position: Chemist
Date: 1/3/2013

QC Comments: QC Batch 17417 12/28/12 (BD13680, BD13681, BD13682, BD13683, BD13684)

QC Comments: QC Batch 17438 12/28/12 (BD13685, BD13686, BD13687, BD13688, BD13689)

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

QC (Site Specific)

----- Sample No: BD13685, QA/QC Batch: 217438 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

QC (Batch Specific)

----- Sample No: BD14004, QA/QC Batch: 217417 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Temperature Narration

The samples in this delivery group were received at 6°C.
(Note acceptance criteria is above freezing up to 6°C)



CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: service@phoenixlabs.com Fax (860) 645-0823

Environmental Laboratories, Inc.

Customer: GZA

Address: 655 Winding Brook Drive
Glastonbury CT 06033

Client Services (860) 645-8726

Project: Commercial Foundry 4369.82

Report to: Jim Hutton

Invoice to: GZA

Project P.O.:

Phone #:

Fax #:

Data Delivery:

☐ Fax #:

☒ Email: james.watson@phoenixlabs.com

Temp 60 Pg 1 of 1

Client Sample - Information - Identification

Sampler's Signature

Analysis Request

Date: 12/27/12

Matrix Code:

DW=drinking water

GW=groundwater

WW=wastewater

SL=sludge

S=soil/solid

A=air

Phoenix Sample #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
13680	A10-PW-1	0	12/27/12	0930
13681	A10-PW-2	0		1015
13682	A10-PW-3	0		1045
13683	A10-PW-4	0		1100
13684	A10-PW-6	0		1200
13685	A10-PW-5	0		1225
13686	A10-PW-7	0		1245
13687	A10-PW-8	0		1300
13688	A10-PW-9	0		1320
13689	A10-PW-10	0		1430

Soil VOA [Methanol] [S. Butylate] [H2O]	
GL Soil container ()	
40 ml VOA Vial [As Et] [H2SO4]	
GL Amber 1000ml [As Et] [HCl]	
PL As Et [230ml] [500ml] [1000ml]	
PL H2SO4 [230ml] [500ml]	
PL HNO3 250ml	
PL NaOH 250ml	
Bacteria Bottle	

Relinquished by:

Accepted by:

Date:

Turnaround:

CT/RI

MA

Data Format

12/27/12 1600
12/28/12 10:30
12/28/12 15:20

GZA Requisition

T. G. G. G. G.

Comments, Special Requirements or Regulations:
* Detection Limit less than 0.5 ppm
0 = Paint / Concrete

1 Day*
2 Days*
3 Days*
Standard
Other

☒ RCP Cert.
☐ GW Protect.
☐ GA Mobility
☐ GB Mobility
☐ SW Protect.
☐ Res. Vol.
☐ Ind. Vol.
☐ Res. Criteria
☐ Other

☐ MCP Cert.
☐ GW-1
☐ GW-2
☐ GW-3
☐ S-1
☐ S-2
☐ S-3
☐ MWRA eSMART
☐ Other

☒ Excel
☒ PDF
☐ GIS/Key
☐ EQUIS
☐ Other

Data Package
☐ ASP-A
☐ NJ Reduced Deliv. *
☐ NJ Hazsite EDD
☐ Phoenix Std Report
☐ Other

State where samples were collected: CT



Monday, January 07, 2013

Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Project ID: COMMERCIAL FOUNDRY
Sample ID#s: BD13690 - BD13700

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 07, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: SD
Received by: SW
Analyzed by: see "By" below

Date Time

12/27/12 7:35
12/28/12 15:20

Laboratory Data

SDG ID: GBD13690
Phoenix ID: BD13690

Project ID: COMMERCIAL FOUNDRY
Client ID: A10-F20-0-0.5

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	98		%	12/28/12	JL	E160.3
Extraction for PCB	Completed			12/31/12	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.34	mg/kg	01/02/13	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	01/02/13	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	01/02/13	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	01/02/13	AW	3540C/8082
PCB-1248	*	0.34	mg/kg	01/02/13	AW	3540C/8082
PCB-1254	*	0.34	mg/kg	01/02/13	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	01/02/13	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	01/02/13	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	01/02/13	AW	3540C/8082
Total PCBs	1.3	0.34	mg/kg	01/02/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	102	%	01/02/13	AW	30 - 150 %
% TCMX	90	%	01/02/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

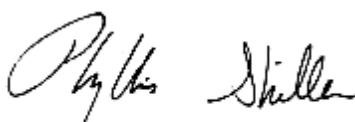
Comments:

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 07, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 07, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: SD
Received by: SW
Analyzed by: see "By" below

Date Time

12/27/12 7:40
12/28/12 15:20

Laboratory Data

SDG ID: GBD13690
Phoenix ID: BD13691

Project ID: COMMERCIAL FOUNDRY
Client ID: A10-F21-0-0.5

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	99		%	12/28/12	JL	E160.3
Extraction for PCB	Completed			12/31/12	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.33	mg/kg	01/02/13	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	01/02/13	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	01/02/13	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	01/02/13	AW	3540C/8082
PCB-1248	*	0.33	mg/kg	01/02/13	AW	3540C/8082
PCB-1254	*	0.33	mg/kg	01/02/13	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	01/02/13	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	01/02/13	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	01/02/13	AW	3540C/8082
Total PCBs	0.75	0.33	mg/kg	01/02/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	100	%	01/02/13	AW	30 - 150 %
% TCMX	88	%	01/02/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

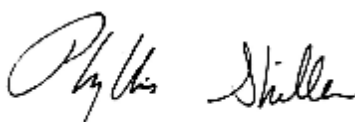
Comments:

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 07, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 07, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: SD
Received by: SW
Analyzed by: see "By" below

Date Time

12/27/12 7:45
12/28/12 15:20

Laboratory Data

SDG ID: GBD13690
Phoenix ID: BD13692

Project ID: COMMERCIAL FOUNDRY
Client ID: A10-F22-0-0.5

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	97		%	12/28/12	JL	E160.3
Extraction for PCB	Completed			12/31/12	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.33	mg/kg	01/02/13	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	01/02/13	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	01/02/13	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	01/02/13	AW	3540C/8082
PCB-1248	ND	0.33	mg/kg	01/02/13	AW	3540C/8082
PCB-1254	ND	0.33	mg/kg	01/02/13	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	01/02/13	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	01/02/13	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	01/02/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	100	%	01/02/13	AW	30 - 150 %
% TCMX	91	%	01/02/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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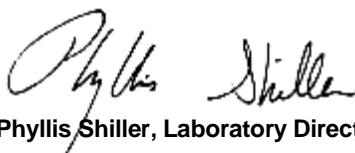
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 07, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 07, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: SD
Received by: SW
Analyzed by: see "By" below

Date Time

12/27/12 7:50
12/28/12 15:20

Laboratory Data

SDG ID: GBD13690
Phoenix ID: BD13693

Project ID: COMMERCIAL FOUNDRY
Client ID: A10-F23-0-0.5

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	98		%	12/28/12	JL	E160.3
Extraction for PCB	Completed			12/31/12	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.067	mg/kg	01/03/13	AW	3540C/8082
PCB-1221	ND	0.067	mg/kg	01/03/13	AW	3540C/8082
PCB-1232	ND	0.067	mg/kg	01/03/13	AW	3540C/8082
PCB-1242	ND	0.067	mg/kg	01/03/13	AW	3540C/8082
PCB-1248	*	0.067	mg/kg	01/03/13	AW	3540C/8082
PCB-1254	*	0.067	mg/kg	01/03/13	AW	3540C/8082
PCB-1260	ND	0.067	mg/kg	01/03/13	AW	3540C/8082
PCB-1262	ND	0.067	mg/kg	01/03/13	AW	3540C/8082
PCB-1268	ND	0.067	mg/kg	01/03/13	AW	3540C/8082
Total PCBs	0.3	0.067	mg/kg	01/03/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	75	%	01/03/13	AW	30 - 150 %
% TCMX	78	%	01/03/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

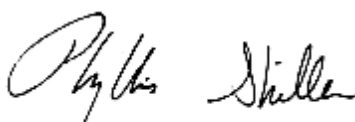
Comments:

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

January 07, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 07, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: SD
Received by: SW
Analyzed by: see "By" below

Date Time

12/27/12 8:10
12/28/12 15:20

Laboratory Data

SDG ID: GBD13690
Phoenix ID: BD13694

Project ID: COMMERCIAL FOUNDRY
Client ID: A14-F5-0-0.5

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	97		%	12/28/12	JL	E160.3
Extraction for PCB	Completed			12/31/12	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	1.7	mg/kg	01/02/13	AW	3540C/8082
PCB-1221	ND	1.7	mg/kg	01/02/13	AW	3540C/8082
PCB-1232	ND	1.7	mg/kg	01/02/13	AW	3540C/8082
PCB-1242	ND	1.7	mg/kg	01/02/13	AW	3540C/8082
PCB-1248	*	1.7	mg/kg	01/02/13	AW	3540C/8082
PCB-1254	*	1.7	mg/kg	01/02/13	AW	3540C/8082
PCB-1260	ND	1.7	mg/kg	01/02/13	AW	3540C/8082
PCB-1262	ND	1.7	mg/kg	01/02/13	AW	3540C/8082
PCB-1268	ND	1.7	mg/kg	01/02/13	AW	3540C/8082
Total PCBs	20	1.7	mg/kg	01/02/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out	%	01/02/13	AW	30 - 150 %
% TCMX	Diluted Out	%	01/02/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

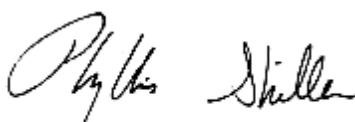
Comments:

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254.

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Phyllis Shiller, Laboratory Director

January 07, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 07, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: SD
Received by: SW
Analyzed by: see "By" below

Date Time

12/27/12 8:15
12/28/12 15:20

Laboratory Data

SDG ID: GBD13690
Phoenix ID: BD13695

Project ID: COMMERCIAL FOUNDRY
Client ID: A14-F6-0-0.5

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	94		%	12/28/12	JL	E160.3
Extraction for PCB	Completed			12/31/12	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.069	mg/kg	01/03/13	AW	3540C/8082
PCB-1221	ND	0.069	mg/kg	01/03/13	AW	3540C/8082
PCB-1232	ND	0.069	mg/kg	01/03/13	AW	3540C/8082
PCB-1242	ND	0.069	mg/kg	01/03/13	AW	3540C/8082
PCB-1248	*	0.069	mg/kg	01/03/13	AW	3540C/8082
PCB-1254	*	0.069	mg/kg	01/03/13	AW	3540C/8082
PCB-1260	ND	0.069	mg/kg	01/03/13	AW	3540C/8082
PCB-1262	ND	0.069	mg/kg	01/03/13	AW	3540C/8082
PCB-1268	ND	0.069	mg/kg	01/03/13	AW	3540C/8082
Total PCBs	0.26	0.069	mg/kg	01/03/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	74	%	01/03/13	AW	30 - 150 %
% TCMX	82	%	01/03/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

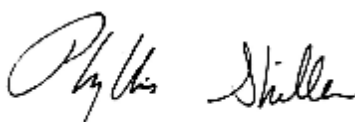
Comments:

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Phyllis Shiller, Laboratory Director

January 07, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 07, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: SD
Received by: SW
Analyzed by: see "By" below

Date Time

12/27/12 8:20
12/28/12 15:20

Laboratory Data

SDG ID: GBD13690
Phoenix ID: BD13696

Project ID: COMMERCIAL FOUNDRY
Client ID: A14-F7-0-0.5

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	92		%	12/28/12	JL	E160.3
Extraction for PCB	Completed			12/31/12	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.071	mg/kg	01/03/13	AW	3540C/8082
PCB-1221	ND	0.071	mg/kg	01/03/13	AW	3540C/8082
PCB-1232	ND	0.071	mg/kg	01/03/13	AW	3540C/8082
PCB-1242	ND	0.071	mg/kg	01/03/13	AW	3540C/8082
PCB-1248	ND	0.071	mg/kg	01/03/13	AW	3540C/8082
PCB-1254	ND	0.071	mg/kg	01/03/13	AW	3540C/8082
PCB-1260	ND	0.071	mg/kg	01/03/13	AW	3540C/8082
PCB-1262	ND	0.071	mg/kg	01/03/13	AW	3540C/8082
PCB-1268	ND	0.071	mg/kg	01/03/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	78	%	01/03/13	AW	30 - 150 %
% TCMX	72	%	01/03/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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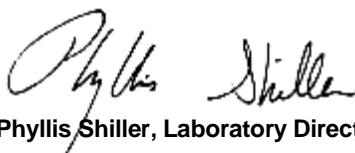
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

January 07, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 07, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: SD
Received by: SW
Analyzed by: see "By" below

Date Time

12/27/12 8:25
12/28/12 15:20

Laboratory Data

SDG ID: GBD13690
Phoenix ID: BD13697

Project ID: COMMERCIAL FOUNDRY
Client ID: A14-F8-0-0.5

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	96		%	12/28/12	JL	E160.3
Extraction for PCB	Completed			12/31/12	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.068	mg/kg	01/03/13	AW	3540C/8082
PCB-1221	ND	0.068	mg/kg	01/03/13	AW	3540C/8082
PCB-1232	ND	0.068	mg/kg	01/03/13	AW	3540C/8082
PCB-1242	ND	0.068	mg/kg	01/03/13	AW	3540C/8082
PCB-1248	*	0.068	mg/kg	01/03/13	AW	3540C/8082
PCB-1254	*	0.068	mg/kg	01/03/13	AW	3540C/8082
PCB-1260	ND	0.068	mg/kg	01/03/13	AW	3540C/8082
PCB-1262	ND	0.068	mg/kg	01/03/13	AW	3540C/8082
PCB-1268	ND	0.068	mg/kg	01/03/13	AW	3540C/8082
Total PCBs	0.28	0.068	mg/kg	01/03/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	79	%	01/03/13	AW	30 - 150 %
% TCMX	84	%	01/03/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

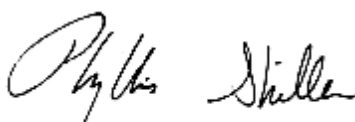
Comments:

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Phyllis Shiller, Laboratory Director

January 07, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 07, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: SD
Received by: SW
Analyzed by: see "By" below

Date Time

12/27/12 8:30
12/28/12 15:20

Laboratory Data

SDG ID: GBD13690
Phoenix ID: BD13698

Project ID: COMMERCIAL FOUNDRY
Client ID: A14-F9-0-0.5

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	99		%	12/28/12	JL	E160.3
Extraction for PCB	Completed			12/31/12	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.066	mg/kg	01/03/13	AW	3540C/8082
PCB-1221	ND	0.066	mg/kg	01/03/13	AW	3540C/8082
PCB-1232	ND	0.066	mg/kg	01/03/13	AW	3540C/8082
PCB-1242	ND	0.066	mg/kg	01/03/13	AW	3540C/8082
PCB-1248	*	0.066	mg/kg	01/03/13	AW	3540C/8082
PCB-1254	ND	0.066	mg/kg	01/03/13	AW	3540C/8082
PCB-1260	ND	0.066	mg/kg	01/03/13	AW	3540C/8082
PCB-1262	ND	0.066	mg/kg	01/03/13	AW	3540C/8082
PCB-1268	ND	0.066	mg/kg	01/03/13	AW	3540C/8082
Total PCBs	0.15	0.066	mg/kg	01/03/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	79	%	01/03/13	AW	30 - 150 %
% TCMX	93	%	01/03/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

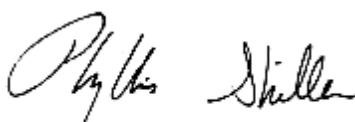
Comments:

* For PCBs, as per section 11.9.3, when weathering of PCBs is present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles aroclor 1248.

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Phyllis Shiller, Laboratory Director

January 07, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 07, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: SD
Received by: SW
Analyzed by: see "By" below

Date Time

12/27/12 8:35
12/28/12 15:20

Laboratory Data

SDG ID: GBD13690
Phoenix ID: BD13699

Project ID: COMMERCIAL FOUNDRY
Client ID: A14-F10-0-0.5

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	98		%	12/28/12	JL	E160.3
Extraction for PCB	Completed			12/31/12	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.068	mg/kg	01/03/13	AW	3540C/8082
PCB-1221	ND	0.068	mg/kg	01/03/13	AW	3540C/8082
PCB-1232	ND	0.068	mg/kg	01/03/13	AW	3540C/8082
PCB-1242	ND	0.068	mg/kg	01/03/13	AW	3540C/8082
PCB-1248	ND	0.068	mg/kg	01/03/13	AW	3540C/8082
PCB-1254	ND	0.068	mg/kg	01/03/13	AW	3540C/8082
PCB-1260	ND	0.068	mg/kg	01/03/13	AW	3540C/8082
PCB-1262	ND	0.068	mg/kg	01/03/13	AW	3540C/8082
PCB-1268	ND	0.068	mg/kg	01/03/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	79	%	01/03/13	AW	30 - 150 %
% TCMX	72	%	01/03/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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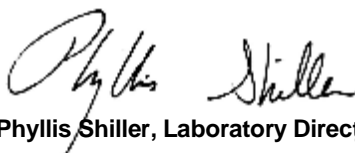
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

January 07, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 07, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: SD
Received by: SW
Analyzed by: see "By" below

Date Time

12/27/12 8:40
12/28/12 15:20

Laboratory Data

SDG ID: GBD13690
Phoenix ID: BD13700

Project ID: COMMERCIAL FOUNDRY
Client ID: A14-F11-0-0.5

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	99		%	12/28/12	JL	E160.3
Extraction for PCB	Completed			12/31/12	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.067	mg/kg	01/03/13	AW	3540C/8082
PCB-1221	ND	0.067	mg/kg	01/03/13	AW	3540C/8082
PCB-1232	ND	0.067	mg/kg	01/03/13	AW	3540C/8082
PCB-1242	ND	0.067	mg/kg	01/03/13	AW	3540C/8082
PCB-1248	*	0.067	mg/kg	01/03/13	AW	3540C/8082
PCB-1254	ND	0.067	mg/kg	01/03/13	AW	3540C/8082
PCB-1260	ND	0.067	mg/kg	01/03/13	AW	3540C/8082
PCB-1262	ND	0.067	mg/kg	01/03/13	AW	3540C/8082
PCB-1268	ND	0.067	mg/kg	01/03/13	AW	3540C/8082
Total PCBs	0.096	0.067	mg/kg	01/03/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	84	%	01/03/13	AW	30 - 150 %
% TCMX	98	%	01/03/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

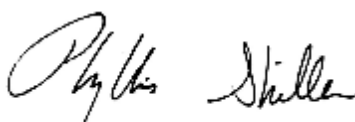
Comments:

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Phyllis Shiller, Laboratory Director

January 07, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

January 07, 2013

QA/QC Data

SDG I.D.: GBD13690

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 217438, QC Sample No: BD13685 (BD13690, BD13691, BD13692, BD13693, BD13694, BD13695, BD13696, BD13697, BD13698, BD13699, BD13700)									
<u>Polychlorinated Biphenyls - Solid</u>									
PCB-1016	ND	94	85	10.1				40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	98	91	7.4				40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	83	90	86	4.5				30 - 150	30
% TCMX (Surrogate Rec)	81	92	86	6.7				30 - 150	30

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis Shiller, Laboratory Director
January 07, 2013

Monday, January 07, 2013

Requested Criteria: None

State: CT

Sample Criteria Exceedences Report

GBD13690 - GZA-PCB

Page 1 of 1

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** GZA-PCB

Project Location: COMMERCIAL FOUNDRY **Project Number:**

Laboratory Sample ID(s): BD13690, BD13691, BD13692, BD13693, BD13694, BD13695, BD13696, BD13697, BD13698, BD13699, BD13700

Sampling Date(s): 12/27/2012

RCP Methods Used:

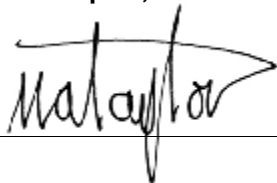
☐ 1311/1312 ☐ 6010 ☐ 7000 ☐ 7196 ☐ 7470/7471 ☐ 8081 ☐ EPH ☐ TO15
☒ 8082 ☐ 8151 ☐ 8260 ☐ 8270 ☐ ETPH ☐ 9010/9012 ☐ VPH

1.	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1a.	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1b.	EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2.	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4.	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5a.	Were reporting limits specified or referenced on the chain-of-custody?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5b.	Were these reporting limits met?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
6.	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA

Note: For all questions to which the response was "No" (with the exception of question #5a, #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized
Signature: _____



Date: Monday, January 07, 2013
 Printed Name: Maryam Taylor
 Position: Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

January 07, 2013

SDG I.D.: GBD13690

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Au-ecd35 01/02/13-1 (BD13690, BD13691, BD13692, BD13694)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner

Position: Chemist

Date: 1/2/2013

Instrument: Au-ecd7 01/03/13-1 (BD13690, BD13691, BD13692, BD13693, BD13695, BD13696, BD13697, BD13698, BD13699, BD13700)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner

Position: Chemist

Date: 1/3/2013

QC Comments: QC Batch 17438 12/28/12 (BD13690, BD13691, BD13692, BD13693, BD13694, BD13695, BD13696, BD13697, BD13698, BD13699, BD13700)

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

QC (Batch Specific)

----- Sample No: BD13685, QA/QC Batch: 217438 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.



Monday, January 21, 2013

Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Project ID: COMMERCIAL FOUNDRY

Sample ID#s: BD13701, BD13703 - BD13706, BD13711 - BD13718, BD13720,
BD13723 - BD13724

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 21, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: SD
Received by: SW
Analyzed by: see "By" below

<u>Date</u>	<u>Time</u>
12/27/12	10:05
12/28/12	15:20

Laboratory Data

SDG ID: GBD13701
Phoenix ID: BD13701

Project ID: COMMERCIAL FOUNDRY
Client ID: A3-F1-0.5-1.0

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	99		%	01/15/13	JL	E160.3
Extraction for PCB	Completed			01/15/13	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.33	mg/kg	01/18/13	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	01/18/13	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	01/18/13	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	01/18/13	AW	3540C/8082
PCB-1248	ND	0.33	mg/kg	01/18/13	AW	3540C/8082
PCB-1254	ND	0.33	mg/kg	01/18/13	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	01/18/13	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	01/18/13	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	01/18/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	101	%	01/18/13	AW	30 - 150 %
% TCMX	97	%	01/18/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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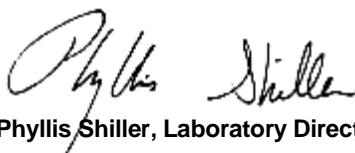
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 21, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 21, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: SD
Received by: SW
Analyzed by: see "By" below

<u>Date</u>	<u>Time</u>
12/27/12	10:15
12/28/12	15:20

Laboratory Data

SDG ID: GBD13701
Phoenix ID: BD13703

Project ID: COMMERCIAL FOUNDRY
Client ID: A3-F3-0.5-1.0

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	98		%	01/15/13	JL	E160.3
Extraction for PCB	Completed			01/15/13	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.34	mg/kg	01/17/13	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	01/17/13	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	01/17/13	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	01/17/13	AW	3540C/8082
PCB-1248	ND	0.34	mg/kg	01/17/13	AW	3540C/8082
PCB-1254	ND	0.34	mg/kg	01/17/13	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	01/17/13	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	01/17/13	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	01/17/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	92	%	01/17/13	AW	30 - 150 %
% TCMX	80	%	01/17/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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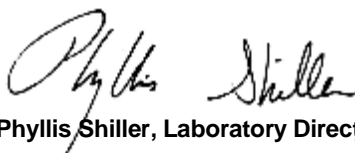
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

January 21, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 21, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: SD
Received by: SW
Analyzed by: see "By" below

Date Time

12/27/12 10:20
12/28/12 15:20

Laboratory Data

SDG ID: GBD13701
Phoenix ID: BD13704

Project ID: COMMERCIAL FOUNDRY
Client ID: A3-F4-0.5-1.0

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	80		%	01/15/13	JL	E160.3
Extraction for PCB	Completed			01/15/13	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.41	mg/kg	01/18/13	AW	3540C/8082
PCB-1221	ND	0.41	mg/kg	01/18/13	AW	3540C/8082
PCB-1232	ND	0.41	mg/kg	01/18/13	AW	3540C/8082
PCB-1242	ND	0.41	mg/kg	01/18/13	AW	3540C/8082
PCB-1248	0.86	0.41	mg/kg	01/18/13	AW	3540C/8082
PCB-1254	ND	0.41	mg/kg	01/18/13	AW	3540C/8082
PCB-1260	ND	0.41	mg/kg	01/18/13	AW	3540C/8082
PCB-1262	ND	0.41	mg/kg	01/18/13	AW	3540C/8082
PCB-1268	ND	0.41	mg/kg	01/18/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	102	%	01/18/13	AW	30 - 150 %
% TCMX	97	%	01/18/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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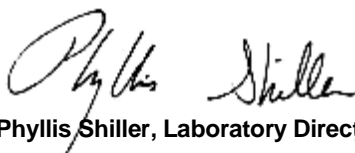
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

January 21, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 21, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: SD
Received by: SW
Analyzed by: see "By" below

Date Time

12/27/12 10:25
12/28/12 15:20

Laboratory Data

SDG ID: GBD13701
Phoenix ID: BD13705

Project ID: COMMERCIAL FOUNDRY
Client ID: A3-F5-0.5-1.0

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	98		%	01/15/13	JL	E160.3
Extraction for PCB	Completed			01/15/13	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.33	mg/kg	01/18/13	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	01/18/13	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	01/18/13	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	01/18/13	AW	3540C/8082
PCB-1248	0.61	0.33	mg/kg	01/18/13	AW	3540C/8082
PCB-1254	ND	0.33	mg/kg	01/18/13	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	01/18/13	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	01/18/13	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	01/18/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	103	%	01/18/13	AW	30 - 150 %
% TCMX	94	%	01/18/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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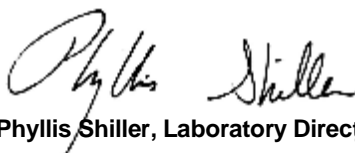
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

January 21, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 21, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: SD
Received by: SW
Analyzed by: see "By" below

Date Time

12/27/12 10:30
12/28/12 15:20

Laboratory Data

SDG ID: GBD13701
Phoenix ID: BD13706

Project ID: COMMERCIAL FOUNDRY
Client ID: A4-F1-0.5-1.0

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	98		%	01/15/13	JL	E160.3
Extraction for PCB	Completed			01/15/13	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.34	mg/kg	01/18/13	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	01/18/13	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	01/18/13	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	01/18/13	AW	3540C/8082
PCB-1248	ND	0.34	mg/kg	01/18/13	AW	3540C/8082
PCB-1254	ND	0.34	mg/kg	01/18/13	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	01/18/13	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	01/18/13	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	01/18/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	96	%	01/18/13	AW	30 - 150 %
% TCMX	90	%	01/18/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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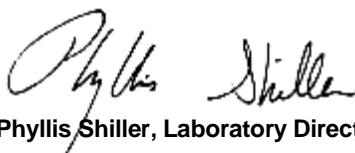
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 21, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 21, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: SD
Received by: SW
Analyzed by: see "By" below

Date Time

12/27/12 10:55
12/28/12 15:20

Laboratory Data

SDG ID: GBD13701
Phoenix ID: BD13711

Project ID: COMMERCIAL FOUNDRY
Client ID: A4-F6-0.5-1.0

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	98		%	01/15/13	JL	E160.3
Extraction for PCB	Completed			01/15/13	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.33	mg/kg	01/18/13	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	01/18/13	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	01/18/13	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	01/18/13	AW	3540C/8082
PCB-1248	0.51	0.33	mg/kg	01/18/13	AW	3540C/8082
PCB-1254	ND	0.33	mg/kg	01/18/13	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	01/18/13	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	01/18/13	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	01/18/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	97	%	01/18/13	AW	30 - 150 %
% TCMX	92	%	01/18/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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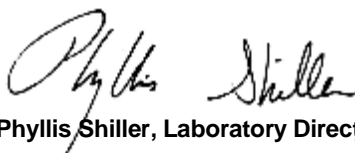
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 21, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 21, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: SD
Received by: SW
Analyzed by: see "By" below

Date Time

12/27/12 11:00
12/28/12 15:20

Laboratory Data

SDG ID: GBD13701
Phoenix ID: BD13712

Project ID: COMMERCIAL FOUNDRY
Client ID: A4-F7-0.5-1.0

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	99		%	01/15/13	JL	E160.3
Extraction for PCB	Completed			01/15/13	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.33	mg/kg	01/17/13	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	01/17/13	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	01/17/13	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	01/17/13	AW	3540C/8082
PCB-1248	ND	0.33	mg/kg	01/17/13	AW	3540C/8082
PCB-1254	ND	0.33	mg/kg	01/17/13	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	01/17/13	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	01/17/13	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	01/17/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	82	%	01/17/13	AW	30 - 150 %
% TCMX	82	%	01/17/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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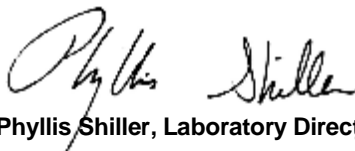
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 21, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 21, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: SD
Received by: SW
Analyzed by: see "By" below

Date Time

12/27/12 11:02
12/28/12 15:20

Laboratory Data

SDG ID: GBD13701
Phoenix ID: BD13713

Project ID: COMMERCIAL FOUNDRY
Client ID: A5-F1-0.5-1.0

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	96		%	01/15/13	JL	E160.3
Extraction for PCB	Completed			01/15/13	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.34	mg/kg	01/17/13	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	01/17/13	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	01/17/13	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	01/17/13	AW	3540C/8082
PCB-1248	ND	0.34	mg/kg	01/17/13	AW	3540C/8082
PCB-1254	ND	0.34	mg/kg	01/17/13	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	01/17/13	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	01/17/13	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	01/17/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	84	%	01/17/13	AW	30 - 150 %
% TCMX	87	%	01/17/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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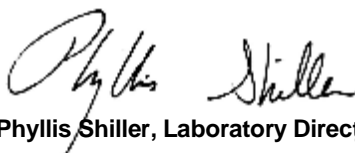
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

January 21, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 21, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: SD
Received by: SW
Analyzed by: see "By" below

Date Time

12/27/12 11:04
12/28/12 15:20

Laboratory Data

SDG ID: GBD13701
Phoenix ID: BD13714

Project ID: COMMERCIAL FOUNDRY
Client ID: A5-F2-0.5-1.0

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	99		%	01/15/13	JL	E160.3
Extraction for PCB	Completed			01/15/13	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.33	mg/kg	01/18/13	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	01/18/13	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	01/18/13	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	01/18/13	AW	3540C/8082
PCB-1248	ND	0.33	mg/kg	01/18/13	AW	3540C/8082
PCB-1254	ND	0.33	mg/kg	01/18/13	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	01/18/13	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	01/18/13	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	01/18/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	96	%	01/18/13	AW	30 - 150 %
% TCMX	87	%	01/18/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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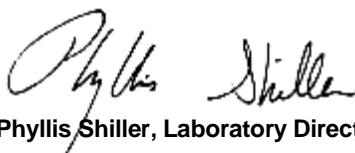
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

January 21, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 21, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: SD
Received by: SW
Analyzed by: see "By" below

Date

12/27/12

Time

11:06

12/28/12

15:20

Laboratory Data

SDG ID: GBD13701
Phoenix ID: BD13715

Project ID: COMMERCIAL FOUNDRY
Client ID: A5-F3-0.5-1.0

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	97		%	01/15/13	JL	E160.3
Extraction for PCB	Completed			01/15/13	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.34	mg/kg	01/18/13	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	01/18/13	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	01/18/13	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	01/18/13	AW	3540C/8082
PCB-1248	ND	0.34	mg/kg	01/18/13	AW	3540C/8082
PCB-1254	ND	0.34	mg/kg	01/18/13	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	01/18/13	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	01/18/13	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	01/18/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	102	%	01/18/13	AW	30 - 150 %
% TCMX	84	%	01/18/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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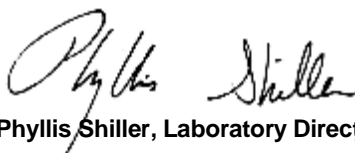
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

January 21, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 21, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: SD
Received by: SW
Analyzed by: see "By" below

Date Time

12/27/12 11:08
12/28/12 15:20

Laboratory Data

SDG ID: GBD13701
Phoenix ID: BD13716

Project ID: COMMERCIAL FOUNDRY
Client ID: A5-F4-0.5-1.0

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	96		%	01/15/13	JL	E160.3
Extraction for PCB	Completed			01/15/13	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.34	mg/kg	01/17/13	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	01/17/13	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	01/17/13	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	01/17/13	AW	3540C/8082
PCB-1248	ND	0.34	mg/kg	01/17/13	AW	3540C/8082
PCB-1254	ND	0.34	mg/kg	01/17/13	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	01/17/13	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	01/17/13	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	01/17/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	77	%	01/17/13	AW	30 - 150 %
% TCMX	82	%	01/17/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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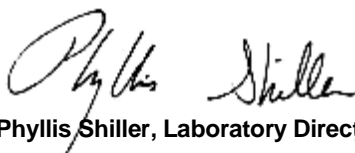
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

January 21, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 21, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: SD
Received by: SW
Analyzed by: see "By" below

Date Time

12/27/12 11:10
12/28/12 15:20

Laboratory Data

SDG ID: GBD13701
Phoenix ID: BD13717

Project ID: COMMERCIAL FOUNDRY
Client ID: A5-F5-0.5-1.0

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	96		%	01/15/13	JL	E160.3
Extraction for PCB	Completed			01/15/13	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.34	mg/kg	01/18/13	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	01/18/13	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	01/18/13	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	01/18/13	AW	3540C/8082
PCB-1248	ND	0.34	mg/kg	01/18/13	AW	3540C/8082
PCB-1254	ND	0.34	mg/kg	01/18/13	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	01/18/13	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	01/18/13	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	01/18/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	100	%	01/18/13	AW	30 - 150 %
% TCMX	93	%	01/18/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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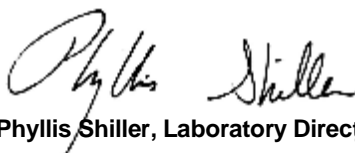
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

January 21, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 21, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: SD
Received by: SW
Analyzed by: see "By" below

Date Time

12/27/12 11:50
12/28/12 15:20

Laboratory Data

SDG ID: GBD13701
Phoenix ID: BD13718

Project ID: COMMERCIAL FOUNDRY
Client ID: A10-F1-0.5-1.0

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	97		%	01/15/13	JL	E160.3
Extraction for PCB	Completed			01/15/13	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.33	mg/kg	01/18/13	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	01/18/13	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	01/18/13	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	01/18/13	AW	3540C/8082
PCB-1248	0.33	0.33	mg/kg	01/18/13	AW	3540C/8082
PCB-1254	ND	0.33	mg/kg	01/18/13	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	01/18/13	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	01/18/13	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	01/18/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	102	%	01/18/13	AW	30 - 150 %
% TCMX	90	%	01/18/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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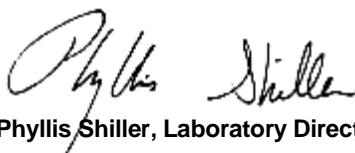
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

January 21, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 21, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: SD
Received by: SW
Analyzed by: see "By" below

Date Time

12/27/12 11:54
12/28/12 15:20

Laboratory Data

SDG ID: GBD13701
Phoenix ID: BD13720

Project ID: COMMERCIAL FOUNDRY
Client ID: A10-F3-0.5-1.0

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	98		%	01/15/13	JL	E160.3
Extraction for PCB	Completed			01/15/13	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.34	mg/kg	01/17/13	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	01/17/13	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	01/17/13	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	01/17/13	AW	3540C/8082
PCB-1248	ND	0.34	mg/kg	01/17/13	AW	3540C/8082
PCB-1254	ND	0.34	mg/kg	01/17/13	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	01/17/13	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	01/17/13	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	01/17/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	96	%	01/17/13	AW	30 - 150 %
% TCMX	88	%	01/17/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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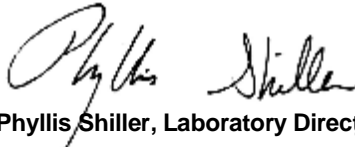
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 21, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 21, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: SD
Received by: SW
Analyzed by: see "By" below

Date Time

12/27/12 12:00
12/28/12 15:20

Laboratory Data

SDG ID: GBD13701
Phoenix ID: BD13723

Project ID: COMMERCIAL FOUNDRY
Client ID: A10F6-0.5-1.0

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	97		%	01/15/13	JL	E160.3
Extraction for PCB	Completed			01/15/13	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.34	mg/kg	01/18/13	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	01/18/13	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	01/18/13	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	01/18/13	AW	3540C/8082
PCB-1248	0.43	0.34	mg/kg	01/18/13	AW	3540C/8082
PCB-1254	ND	0.34	mg/kg	01/18/13	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	01/18/13	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	01/18/13	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	01/18/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	99	%	01/18/13	AW	30 - 150 %
% TCMX	95	%	01/18/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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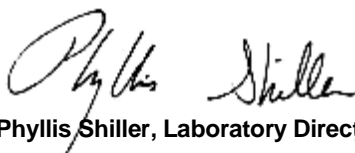
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

January 21, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 21, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: SD
Received by: SW
Analyzed by: see "By" below

Date Time

12/27/12 12:30
12/28/12 15:20

Laboratory Data

SDG ID: GBD13701
Phoenix ID: BD13724

Project ID: COMMERCIAL FOUNDRY
Client ID: A10F7-0.5-1.0

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	95		%	01/15/13	JL	E160.3
Extraction for PCB	Completed			01/15/13	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.35	mg/kg	01/17/13	AW	3540C/8082
PCB-1221	ND	0.35	mg/kg	01/17/13	AW	3540C/8082
PCB-1232	ND	0.35	mg/kg	01/17/13	AW	3540C/8082
PCB-1242	ND	0.35	mg/kg	01/17/13	AW	3540C/8082
PCB-1248	ND	0.35	mg/kg	01/17/13	AW	3540C/8082
PCB-1254	ND	0.35	mg/kg	01/17/13	AW	3540C/8082
PCB-1260	ND	0.35	mg/kg	01/17/13	AW	3540C/8082
PCB-1262	ND	0.35	mg/kg	01/17/13	AW	3540C/8082
PCB-1268	ND	0.35	mg/kg	01/17/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	93	%	01/17/13	AW	30 - 150 %
% TCMX	84	%	01/17/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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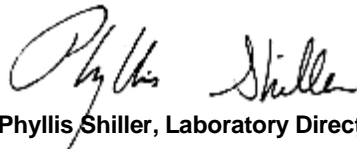
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 21, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

January 21, 2013

QA/QC Data

SDG I.D.: GBD13701

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 218604, QC Sample No: BD12683 (BD13701, BD13703, BD13704, BD13705, BD13706, BD13711, BD13712, BD13713, BD13714, BD13715, BD13716, BD13717, BD13718, BD13720, BD13723)									
<u>Polychlorinated Biphenyls - Solid</u>									
PCB-1016	ND	85	84	1.2	86	83	3.6	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	82	83	1.2	83	79	4.9	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	77	78	77	1.3	77	73	5.3	30 - 150	30
% TCMX (Surrogate Rec)	66	88	84	4.7	91	90	1.1	30 - 150	30

QA/QC Batch 218605, QC Sample No: BD13724 (BD13724)

Polychlorinated Biphenyls - Solid

PCB-1016	ND	89	86	3.4				40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	85	83	2.4				40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	79	80	77	3.8				30 - 150	30
% TCMX (Surrogate Rec)	79	90	86	4.5				30 - 150	30

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis Shiller, Laboratory Director
January 21, 2013

Monday, January 21, 2013

Requested Criteria: None

State: CT

Sample Criteria Exceedences Report

GBD13701 - GZA-PCB

Page 1 of 1

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
--------	-------	-----------------	----------	--------	----	----------	----------------	-------------------

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** GZA-PCB

Project Location: COMMERCIAL FOUNDRY **Project Number:**

Laboratory Sample ID(s): BD13701, BD13702, BD13703, BD13704, BD13705, BD13706, BD13707, BD13708, BD13709, BD13710, BD13711, BD13712, BD13713, BD13714, BD13715, BD13716, BD13717, BD13718, BD13719, BD13720, BD13721, BD13722, BD13723, BD13724

Sampling Date(s): 12/27/2012

RCP Methods Used:

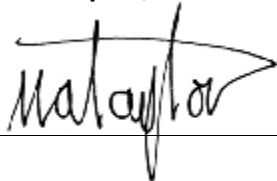
☐ 1311/1312 ☐ 6010 ☐ 7000 ☐ 7196 ☐ 7470/7471 ☐ 8081 ☐ EPH ☐ TO15
☒ 8082 ☐ 8151 ☐ 8260 ☐ 8270 ☐ ETPH ☐ 9010/9012 ☐ VPH

1.	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1a.	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1b.	EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2.	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4.	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5a.	Were reporting limits specified or referenced on the chain-of-custody?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5b.	Were these reporting limits met?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
6.	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA

Note: For all questions to which the response was "No" (with the exception of question #5a, #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized
Signature: _____



Date: Monday, January 21, 2013
Printed Name: Maryam Taylor
Position: Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

January 21, 2013

SDG I.D.: GBD13701

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Au-ecd1 01/18/13-1 (BD13701, BD13704, BD13705, BD13706, BD13711, BD13714, BD13715, BD13717, BD13718, BD13723)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 1/18/2013

Instrument: Au-ecd3 01/17/13-1 (BD13712)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 1/17/2013

Instrument: Au-ecd35 01/17/13-1 (BD13713, BD13716)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 1/17/2013

Instrument: Au-ecd5 01/17/13-1 (BD13703, BD13720, BD13724)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

January 21, 2013

SDG I.D.: GBD13701

Printed Name Adam Werner
Position: Chemist
Date: 1/17/2013

QC Comments: QC Batch 18604 01/15/13 (BD13701, BD13703, BD13704, BD13705, BD13706, BD13711, BD13712, BD13713, BD13714, BD13715, BD13716, BD13717, BD13718, BD13720, BD13723)

QC Comments: QC Batch 18605 01/15/13 (BD13724)

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

QC (Site Specific)

----- Sample No: BD13724, QA/QC Batch: 218605 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

QC (Batch Specific)

----- Sample No: BD12683, QA/QC Batch: 218604 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Temperature Narration

The samples in this delivery group were received at 6°C.
(Note acceptance criteria is above freezing up to 6°C)



CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: service@phoenixlabs.com Fax (860) 645-0823

Environmental Laboratories, Inc.

Customer: GZA
Address: 655 Winding Brook Dr
Grasslandbury, CT 06033

Client Services (860) 645-8726

Project: Commercial Laundry
Report to: Jim Hutton
Invoice to: Jim Hutton

Project P.O.: 43369.82
Phone #: _____
Fax #: _____

Client Sample - Information - Identification

Sampler's Signature: Shawn Deag Date: 12/27/12

Matrix Code:
DW=drinking water WW=wastewater S=soil/solid O=other
GW=groundwater SL=sludge A=air

Phoenix Sample #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
13701	A3-F1-0.5-1.0	O	12/27/12	1005
13702	A3-F2-0.5-1.0	O	12/27/12	1016
13703	A3-F3-0.5-1.0	O	12/27/12	1015
13704	A3-F4-0.5-1.0	O	12/27/12	1020
13705	A3-F5-0.5-1.0	O	12/27/12	1025
13706	A4-F1-0.5-1.0	O	12/27/12	1030
13707	A4-F2-0.5-1.0	O	12/27/12	1035
13708	A4-F3-0.5-1.0	O	12/27/12	1040
13709	A4-F4-0.5-1.0	O	12/27/12	1045
13710	A4-F5-0.5-1.0	O	12/27/12	1050
13711	A4-F6-0.5-1.0	O	12/27/12	1055
13712	A4-F7-0.5-1.0	O	12/27/12	1100

Relinquished by: Shawn Deag Accepted by: GZA Field

Date: 12/27/12 Time: 1600

Turnaround: ☐ 1 Day* ☒ 2 Days* ☐ 3 Days* ☐ Standard ☐ Other

CT/RI ☒ RCP Cert. ☐ GW Protect. ☐ GA Mobility ☐ GB Mobility ☐ SW Protect. ☐ Res. Vol. ☐ Ind. Vol. ☐ Res. Criteria ☐ Other

MA ☐ MCP Cert. ☐ GW-1 ☐ GW-2 ☐ GW-3 ☐ S-1 ☐ S-2 ☐ S-3 ☐ MWRA eSMART ☐ Other

Data Format ☒ Excel ☒ PDF ☐ GIS/Key ☐ EQUIS ☐ Other

Data Package ☐ ASP-A ☐ NJ Reduced Deliv. * ☐ NJ Hazsite EDD ☒ Phoenix Std Report ☐ Other

Comments, Special Requirements or Regulations:

O = Concrete

FIELD SAMPLES PLACED ON HOLD

State where samples were collected: CT

Data Delivery:

☐ Fax #:

Email: James.Hutton@GZA.com



CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: service@phoenixlabs.com Fax (860) 645-0823

Environmental Laboratories, Inc.

Temp 60° Pg 3 of 5

Data Delivery:

☐ Fax #:
☒ Email: James.Hutton@gza.com

Customer: GZA
Address: 655 Winding Brook Dr
Glastonbury, CT 06033

Project: Commercial Foundry
Report to: Jim Hutton
Invoice to: Jim Hutton

Project P.O.: 43369182
Phone #:
Fax #:

Client Sample - Information - Identification

Sampler's Signature: Shawn Dray Date: 12/27/12

Matrix Code:
DW=drinking water WW=wastewater S=soil/solid O=other
GW=groundwater SL=sludge A=air

Analysis Request

Soil VOA [Methanol] [S. Butylate] [H2O]
GL Soil container () [02]
GL 40 ml VOA Vial [As E] [H2SO4]
PL As E [] [250ml] [500ml] [1000ml]
PL H2SO4 [] [250ml] [500ml] [1000ml]
PL HNO3 250ml
Bacteria Bottle

Phoenix Sample #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
13713	A5-F1-0.5-1.0	O	12/27/12	1102
13714	A5-F2-0.5-1.0	O	12/27/12	1104
13715	A5-F3-0.5-1.0	O	12/27/12	1106
13716	A5-F4-0.5-1.0	O	12/27/12	1108
13717	A5-F5-0.5-1.0	O	12/27/12	1110
13718	A10-F1-0.5-1.0	O	12/27/12	1150
13719	A10-F2-0.5-1.0	O	12/27/12	1152
13720	A10-F3-0.5-1.0	O	12/27/12	1154
13721	A10-F4-0.5-1.0	O	12/27/12	1156
13722	A10-F5-0.5-1.0	O	12/27/12	1158
13723	A10-F6-0.5-1.0	O	12/27/12	1200
13724	A10-F7-0.5-1.0	O	12/27/12	1230

Relinquished by: [Signature] Accepted by: [Signature]

Time: 1600

Date: 12/27/12

Turnaround: ☒ 1 Day* ☐ 2 Days* ☐ 3 Days* ☒ Standard ☐ Other

CT/RI ☒ RCP Cert. ☐ GW Protect. ☐ GA Mobility ☐ GB Mobility ☐ SW Protect. ☐ Res. Vol. ☐ Ind. Vol. ☐ Res. Criteria ☐ Other

MA ☐ MCP Cert. ☐ GW-1 ☐ GW-2 ☐ GW-3 ☐ S-1 ☐ S-2 ☐ S-3 ☐ MWRA eSMART ☐ Other

Data Format ☒ Excel ☒ PDF ☐ GIS/Key ☐ EQUIS ☐ Other

Data Package ☐ ASP-A ☐ NJ Reduced Deliv. * ☐ NJ Hazsite EDD ☒ Phoenix Std Report ☐ Other

Comments, Special Requirements or Regulations:

O = Concrete

FIELD SAMPLES PLACED ON HOLD

State where samples were collected: CT

13050
13701
13725

bobbi - Phoenixlabs

From: Benjamin Graham [Benjamin.Graham@gza.com]
Sent: Tuesday, January 15, 2013 8:20 AM

To: bobbj@phoenixlabs.com
Cc: James Hutton

Subject: commercial foundry additional samples

Hi Bobbi. I would like to run some additional samples from our Commercial Foundry job (43369.82). Could you run concrete floor samples for PCBs by manual soxhlet for the following samples you have on hold:

A3-F-1 (0.5-1") - 13701

A3-F-3 (0.5-1") - 13703

A3-F-4 (0.5-1") - 13704

A3-F-5 (0.5-1") - 13705

A4-F-1 (0.5-1") - 13706

A4-F-6 (0.5-1") - 13711

A4-F-7 (0.5-1") - 13712

A5-F-1 (0.5-1") - 13713

A5-F-2 (0.5-1") - 13714

A5-F-3 (0.5-1") - 13715

A5-F-4 (0.5-1") - 13716

A5-F-5 (0.5-1") - 13717

A10-F-1 (0.5-1") - 13718

A10-F-3 (0.5-1") - 13720

A10-F-6 (0.5-1") - 13723

A10-F-7 (0.5-1") - 13724

A10-F-11 (0.5-1") - 13728

A10-F-12 (0.5-1") - 13729

A10-F-15 (0.5-1") - 13732

A10-F-16 (0.5-1") - 13733

A10-F-17 (0.5-1") - 13734

A10-F-18 (0.5-1") - 13735

A10-F-19 (0.5-1") - 13736

A10-F-20 (0.5-1") - 13737

A14-F-5 (0.5-1") - 13741

Thank you. Please give myself or Jim Hutton a call with any questions.

Benjamin A. Graham

Environmental Scientist

GZA GeoEnvironmental Inc.

655 Winding Brook Drive, Suite 402

Glastonbury CT 06033

Office: (860) 858-3129

Cell: (860) 227-6971

Fax: (860) 652-8590

1/15/2013

15050
13701
13705

Bobbi - Phoenixlabs

From: Benjamin Graham [Benjamin.Graham@gza.com]
Sent: Tuesday, January 15, 2013 9:42 AM

To: bobbil@phoenixlabs.com
Cc: James Hutton

Subject: more comm foundry add ons (43369.82)

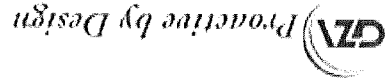
Bobbi, could we also run:

A14-S-18 (5-5.25') & (5-75-6'), A14-S-19 (5-5.25') and A14-S-20 (5-5.25') for PCBs by Manual Soxhlet

A1-S-4 (0-6") for PAHs and ETPH
A1-S-6 (0-2") for PAHs

Thanks again!

Benjamin A. Graham
Environmental Scientist
GZA GeoEnvironmental Inc.
655 Winding Brook Drive, Suite 402
Glastonbury CT 06033
Office: (860) 858-3129
Cell: (860) 227-6971
Fax: (860) 652-8590



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For information about GZA GeoEnvironmental, Inc. and its services, please visit our website at www.gza.com.



Monday, January 21, 2013

Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Project ID: COMMERCIAL FOUNDRY
Sample ID#s: BD13728 - BD13729, BD13732 - BD13737, BD13741

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 21, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: SD
Received by: SW
Analyzed by: see "By" below

<u>Date</u>	<u>Time</u>
12/27/12	12:38
12/28/12	15:20

Laboratory Data

SDG ID: GBD13725
Phoenix ID: BD13728

Project ID: COMMERCIAL FOUNDRY
Client ID: A10-F11-0.5-1.0

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	98		%	01/15/13	JL	E160.3
Extraction for PCB	Completed			01/15/13	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.33	mg/kg	01/17/13	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	01/17/13	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	01/17/13	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	01/17/13	AW	3540C/8082
PCB-1248	ND	0.33	mg/kg	01/17/13	AW	3540C/8082
PCB-1254	ND	0.33	mg/kg	01/17/13	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	01/17/13	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	01/17/13	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	01/17/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	74	%	01/17/13	AW	30 - 150 %
% TCMX	89	%	01/17/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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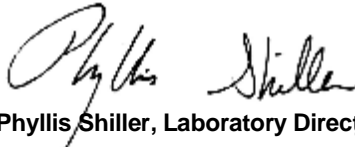
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

January 21, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 21, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: SD
Received by: SW
Analyzed by: see "By" below

<u>Date</u>	<u>Time</u>
12/27/12	12:40
12/28/12	15:20

Laboratory Data

SDG ID: GBD13725
Phoenix ID: BD13729

Project ID: COMMERCIAL FOUNDRY
Client ID: A10-F12-0.5-1.0

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	98		%	01/15/13	JL	E160.3
Extraction for PCB	Completed			01/15/13	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.33	mg/kg	01/17/13	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	01/17/13	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	01/17/13	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	01/17/13	AW	3540C/8082
PCB-1248	ND	0.33	mg/kg	01/17/13	AW	3540C/8082
PCB-1254	ND	0.33	mg/kg	01/17/13	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	01/17/13	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	01/17/13	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	01/17/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	69	%	01/17/13	AW	30 - 150 %
% TCMX	84	%	01/17/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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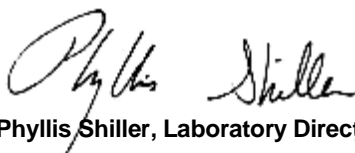
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

January 21, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 21, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: SD
Received by: SW
Analyzed by: see "By" below

Date Time

12/27/12 13:10
12/28/12 15:20

Laboratory Data

SDG ID: GBD13725
Phoenix ID: BD13732

Project ID: COMMERCIAL FOUNDRY
Client ID: A10-F15-0.5-1.0

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	98		%	01/15/13	JL	E160.3
Extraction for PCB	Completed			01/15/13	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.34	mg/kg	01/18/13	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	01/18/13	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	01/18/13	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	01/18/13	AW	3540C/8082
PCB-1248	0.68	0.34	mg/kg	01/18/13	AW	3540C/8082
PCB-1254	ND	0.34	mg/kg	01/18/13	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	01/18/13	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	01/18/13	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	01/18/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	96	%	01/18/13	AW	30 - 150 %
% TCMX	92	%	01/18/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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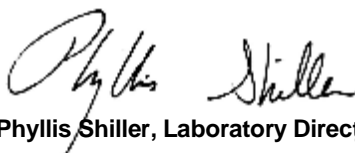
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

January 21, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 21, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: SD
Received by: SW
Analyzed by: see "By" below

Date Time

12/27/12 13:12
12/28/12 15:20

Laboratory Data

SDG ID: GBD13725
Phoenix ID: BD13733

Project ID: COMMERCIAL FOUNDRY
Client ID: A10-F16-0.5-1.0

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	98		%	01/15/13	JL	E160.3
Extraction for PCB	Completed			01/15/13	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.34	mg/kg	01/17/13	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	01/17/13	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	01/17/13	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	01/17/13	AW	3540C/8082
PCB-1248	ND	0.34	mg/kg	01/17/13	AW	3540C/8082
PCB-1254	ND	0.34	mg/kg	01/17/13	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	01/17/13	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	01/17/13	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	01/17/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	74	%	01/17/13	AW	30 - 150 %
% TCMX	85	%	01/17/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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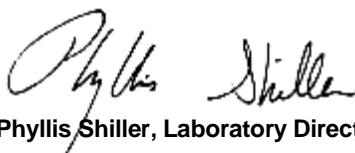
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

January 21, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 21, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: SD
Received by: SW
Analyzed by: see "By" below

Date Time

12/27/12 13:14
12/28/12 15:20

Laboratory Data

SDG ID: GBD13725
Phoenix ID: BD13734

Project ID: COMMERCIAL FOUNDRY
Client ID: A10-F17-0.5-1.0

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	97		%	01/15/13	JL	E160.3
Extraction for PCB	Completed			01/15/13	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.34	mg/kg	01/17/13	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	01/17/13	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	01/17/13	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	01/17/13	AW	3540C/8082
PCB-1248	ND	0.34	mg/kg	01/17/13	AW	3540C/8082
PCB-1254	ND	0.34	mg/kg	01/17/13	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	01/17/13	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	01/17/13	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	01/17/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	73	%	01/17/13	AW	30 - 150 %
% TCMX	79	%	01/17/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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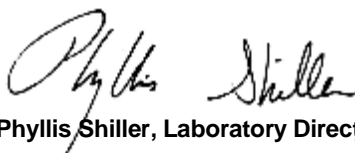
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

January 21, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 21, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: SD
Received by: SW
Analyzed by: see "By" below

Date Time

12/27/12 13:16
12/28/12 15:20

Laboratory Data

SDG ID: GBD13725
Phoenix ID: BD13735

Project ID: COMMERCIAL FOUNDRY
Client ID: A10-F18-0.5-1.0

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	98		%	01/15/13	JL	E160.3
Extraction for PCB	Completed			01/15/13	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.33	mg/kg	01/17/13	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	01/17/13	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	01/17/13	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	01/17/13	AW	3540C/8082
PCB-1248	ND	0.33	mg/kg	01/17/13	AW	3540C/8082
PCB-1254	ND	0.33	mg/kg	01/17/13	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	01/17/13	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	01/17/13	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	01/17/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	70	%	01/17/13	AW	30 - 150 %
% TCMX	83	%	01/17/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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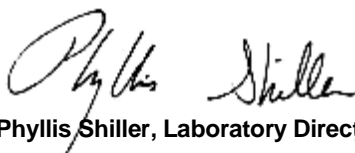
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

January 21, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 21, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: SD
Received by: SW
Analyzed by: see "By" below

Date Time

12/27/12 13:18
12/28/12 15:20

Laboratory Data

SDG ID: GBD13725
Phoenix ID: BD13736

Project ID: COMMERCIAL FOUNDRY
Client ID: A10-F19-0.5-1.0

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	93		%	01/15/13	JL	E160.3
Extraction for PCB	Completed			01/15/13	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.36	mg/kg	01/18/13	AW	3540C/8082
PCB-1221	ND	0.36	mg/kg	01/18/13	AW	3540C/8082
PCB-1232	ND	0.36	mg/kg	01/18/13	AW	3540C/8082
PCB-1242	ND	0.36	mg/kg	01/18/13	AW	3540C/8082
PCB-1248	0.43	0.36	mg/kg	01/18/13	AW	3540C/8082
PCB-1254	ND	0.36	mg/kg	01/18/13	AW	3540C/8082
PCB-1260	ND	0.36	mg/kg	01/18/13	AW	3540C/8082
PCB-1262	ND	0.36	mg/kg	01/18/13	AW	3540C/8082
PCB-1268	ND	0.36	mg/kg	01/18/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	98	%	01/18/13	AW	30 - 150 %
% TCMX	92	%	01/18/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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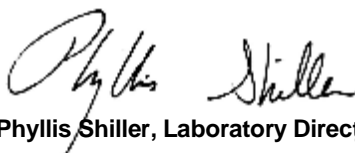
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

January 21, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 21, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: SD
Received by: SW
Analyzed by: see "By" below

Date Time

12/27/12 13:40
12/28/12 15:20

Laboratory Data

SDG ID: GBD13725
Phoenix ID: BD13737

Project ID: COMMERCIAL FOUNDRY
Client ID: A10-F20-0.5-1.0

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	97		%	01/15/13	JL	E160.3
Extraction for PCB	Completed			01/15/13	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.34	mg/kg	01/18/13	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	01/18/13	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	01/18/13	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	01/18/13	AW	3540C/8082
PCB-1248	ND	0.34	mg/kg	01/18/13	AW	3540C/8082
PCB-1254	ND	0.34	mg/kg	01/18/13	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	01/18/13	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	01/18/13	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	01/18/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	101	%	01/18/13	AW	30 - 150 %
% TCMX	90	%	01/18/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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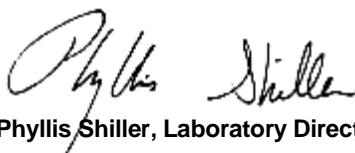
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

January 21, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 21, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by: SD
Received by: SW
Analyzed by: see "By" below

<u>Date</u>	<u>Time</u>
12/27/12	14:18
12/28/12	15:20

Laboratory Data

SDG ID: GBD13725
Phoenix ID: BD13741

Project ID: COMMERCIAL FOUNDRY
Client ID: A14-F5-0.5-1.0

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	94		%	01/15/13	JL	E160.3
Extraction for PCB	Completed			01/15/13	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.35	mg/kg	01/18/13	AW	3540C/8082
PCB-1221	ND	0.35	mg/kg	01/18/13	AW	3540C/8082
PCB-1232	ND	0.35	mg/kg	01/18/13	AW	3540C/8082
PCB-1242	ND	0.35	mg/kg	01/18/13	AW	3540C/8082
PCB-1248	1.4	0.35	mg/kg	01/18/13	AW	3540C/8082
PCB-1254	ND	0.35	mg/kg	01/18/13	AW	3540C/8082
PCB-1260	ND	0.35	mg/kg	01/18/13	AW	3540C/8082
PCB-1262	ND	0.35	mg/kg	01/18/13	AW	3540C/8082
PCB-1268	ND	0.35	mg/kg	01/18/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	96	%	01/18/13	AW	30 - 150 %
% TCMX	90	%	01/18/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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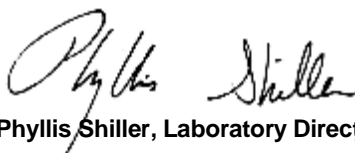
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

January 21, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

January 21, 2013

QA/QC Data

SDG I.D.: GBD13725

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 218605, QC Sample No: BD13724 (BD13728, BD13729, BD13732, BD13733, BD13734, BD13735, BD13736, BD13737, BD13741)									
<u>Polychlorinated Biphenyls - Solid</u>									
PCB-1016	ND	89	86	3.4				40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	85	83	2.4				40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	79	80	77	3.8				30 - 150	30
% TCMX (Surrogate Rec)	79	90	86	4.5				30 - 150	30

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis Shiller, Laboratory Director
January 21, 2013

Monday, January 21, 2013

Requested Criteria: None

State: CT

Sample Criteria Exceedences Report

GBD13725 - GZA-PCB

Page 1 of 1

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** GZA-PCB

Project Location: COMMERCIAL FOUNDRY **Project Number:**

Laboratory Sample ID(s): BD13725, BD13726, BD13727, BD13728, BD13729, BD13730, BD13731, BD13732, BD13733, BD13734, BD13735, BD13736, BD13737, BD13738, BD13739, BD13740, BD13741, BD13742, BD13743, BD13744, BD13745, BD13746, BD13747

Sampling Date(s): 12/27/2012

RCP Methods Used:

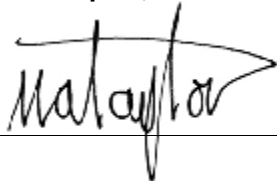
☐ 1311/1312 ☐ 6010 ☐ 7000 ☐ 7196 ☐ 7470/7471 ☐ 8081 ☐ EPH ☐ TO15
☒ 8082 ☐ 8151 ☐ 8260 ☐ 8270 ☐ ETPH ☐ 9010/9012 ☐ VPH

1.	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1a.	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1b.	EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2.	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4.	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5a.	Were reporting limits specified or referenced on the chain-of-custody?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5b.	Were these reporting limits met?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
6.	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA

Note: For all questions to which the response was "No" (with the exception of question #5a, #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized
Signature: _____



Date: Monday, January 21, 2013
Printed Name: Maryam Taylor
Position: Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

January 21, 2013

SDG I.D.: GBD13725

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Au-ecd1 01/18/13-1 (BD13732, BD13736, BD13737, BD13741)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner

Position: Chemist

Date: 1/18/2013

Instrument: Au-ecd35 01/17/13-1 (BD13728, BD13729, BD13733, BD13734, BD13735)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner

Position: Chemist

Date: 1/17/2013

QC Comments: QC Batch 18605 01/15/13 (BD13728, BD13729, BD13732, BD13733, BD13734, BD13735, BD13736, BD13737, BD13741)

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

QC (Batch Specific)

----- Sample No: BD13724, QA/QC Batch: 218605 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Temperature Narration

The samples in this delivery group were received at 6°C.

(Note acceptance criteria is above freezing up to 6°C)



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

January 21, 2013

SDG LD.: GBD13725



CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: service@phoenixlabs.com Fax (860) 645-0823

Environmental Laboratories, Inc.

Temp 60° Pg 4 of 5

Data Delivery:

☐ Fax #:
☒ Email: James.Hutton@gea.com

Customer: GZA Project P.O.: 43369.82
Address: 655 Winding Brook Dr Report to: Jim Hutton Phone #:
Glastonbury, CT 06033 Invoice to: Jim Hutton Fax #:

Client Sample - Information - Identification

Sampler's Signature: Shawn Day Date: 12/27/12

Matrix Code:

DW=drinking water WW=wastewater S=soil/solid O=other
GW=groundwater SL=sludge A=air

Phoenix Sample #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
13725	A10-F8-0.5-1.0	O	12/27/12	1232
13726	A10-F9-0.5-1.0	O	12/27/12	1234
13727	A10-F10-0.5-1.0	O	12/27/12	1236
13728	A10-F11-0.5-1.0	O	12/27/12	1238
13729	A10-F12-0.5-1.0	O	12/27/12	1240
13730	A10-F13-0.5-1.0	O	12/27/12	1242
13731	A10-F14-0.5-1.0	O	12/27/12	1244
13732	A10-F15-0.5-1.0	O	12/27/12	1300
13733	A10-F16-0.5-1.0	O	12/27/12	1312
13734	A10-F17-0.5-1.0	O	12/27/12	1314
13735	A10-F18-0.5-1.0	O	12/27/12	1316
13736	A10-F19-0.5-1.0	O	12/27/12	1318

Relinquished by:

Accepted by:

Time:

Date:

GZA 624 12/27/12 1600
12/28/12 10:30
12/28/12 15:20

Comments, Special Requirements or Regulations:

O = Concrete

FREEZE samples placed on Hold

Analysis Request

Soil VOA [Methanol] [S. Butyrate] [H2O]	
GL Soil container ()	
40 ml VOA Vial [As is] [H2SO4]	
GL Anker 1000ml [As is] [HCl]	
PL As is [] 250ml [] 500ml [] 1000ml	
PL H2SO4 [] 250ml [] 500ml	
PL HNO3 250ml	
Bacteria Bottle	

MA	CT/RI	Turnaround:	Date:
<input type="checkbox"/> MCP Cert.	<input checked="" type="checkbox"/> RCP Cert.	<input type="checkbox"/> 1 Day*	12/27/12
<input type="checkbox"/> GW-1	<input type="checkbox"/> GW Protect.	<input checked="" type="checkbox"/> 2 Days*	12/28/12
<input type="checkbox"/> GW-2	<input type="checkbox"/> GA Mobility	<input type="checkbox"/> 3 Days*	12/28/12
<input type="checkbox"/> GW-3	<input type="checkbox"/> GB Mobility	<input checked="" type="checkbox"/> Standard	12/28/12
<input type="checkbox"/> S-1	<input type="checkbox"/> SW Protect.	<input type="checkbox"/> Other	15:20
<input type="checkbox"/> S-2	<input type="checkbox"/> Res. Vol.		
<input type="checkbox"/> S-3	<input type="checkbox"/> Ind. Vol.		
<input type="checkbox"/> MWRA eSMART	<input type="checkbox"/> Res. Criteria		
<input type="checkbox"/> Other	<input type="checkbox"/> Other		

Data Format

☒ Excel
☒ PDF
☐ GIS/Key
☐ EQUIS
☐ Other

Data Package

☐ ASP-A
☐ NJ Reduced Deliv. *
☐ NJ Hazsite EDD
☒ Phoenix Std Report
☐ Other

State where samples were collected: CT



CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: service@phoenixlabs.com Fax (860) 645-0823

Environmental Laboratories, Inc.

Customer: GZA
Address: 655 Winding Brook Dr
Glastonbury, CT 06033

Project: Commercial Foundry
Report to: Jim Hutton
Invoice to: Jim Hutton

Project P.O.: 43369.82
Phone #: _____
Fax #: _____

Client Sample - Information - Identification

Sampler's Signature: Shawn Duag Date: 12/27/12

Matrix Code:
DW=drinking water WW=wastewater S=soil/solid O=other
GW=groundwater SL=sludge A=air

Phoenix Sample #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
13737	A10-F20-0.5-1.0	O	12/27/12	1346
13738	A10-F21-0.5-1.0	O	12/27/12	1342
13739	A10-F22-0.5-1.0	O	12/27/12	1350
13740	A10-F23-0.5-1.0	O	12/27/12	1352
13741	A14-F5-0.5-1.0	O	12/27/12	1418
13742	A14-F6-0.5-1.0	O	12/27/12	1420
13743	A14-F7-0.5-1.0	O	12/27/12	1422
13744	A14-F8-0.5-1.0	O	12/27/12	1424
13745	A14-F9-0.5-1.0	O	12/27/12	1426
13746	A14-F10-0.5-1.0	O	12/27/12	1428
13747	A14-F11-0.5-1.0	O	12/27/12	1430

Analysis Request

Soil VOA [Methanol] [S. Butylate] [H2O]	
GL Soil container ()	
40 ml VOA Vial [As is] [HCl]	
GL Amber 1000ml [As is] [H2SO4]	
PL As is [] 250ml [] 500ml [] 1000ml	
PL H2SO4 [] 250ml [] 500ml	
PL HNO3 250ml	
Bacteria Bottle	

Relinquished by: [Signature] Accepted by: GZA [Signature]
[Signature]
T. Connors

Date: 12/27/12 Time: 16:00
12/28/12 10:30
12/28/12 15:20

Comments, Special Requirements or Regulations:
O = Concrete

FREEZE samples placed on hold

Turnaround: ☐ 1 Day* ☒ 2 Days* ☐ 3 Days* ☒ Standard ☐ Other
* SURCHARGE APPLIES

CT/RI ☒ RCP Cert. ☐ GW Protect. ☐ GA Mobility ☐ GB Mobility ☐ SW Protect. ☐ Res. Vol. ☐ Ind. Vol. ☐ Res. Criteria ☐ Other

MA ☐ MCP Cert. ☐ GW-1 ☐ GW-2 ☐ GW-3 ☐ S-1 ☐ S-2 ☐ S-3 ☐ MWRA eSMART ☐ Other

Data Format ☒ Excel ☐ PDF ☐ GIS/Key ☐ EQUIS ☐ Other

Data Package ☐ ASP-A ☐ NJ Reduced Deliv. * ☐ NJ Hazsite EDD ☒ Phoenix Std Report ☐ Other

State where samples were collected: CT

Data Delivery:

☐ Fax # _____
☒ Email: James.Hutton@GZA.com

13050
13701
13725

Jobbi - Phoenixlabs

From: Benjamin Graham [Benjamin.Graham@gza.com]
Sent: Tuesday, January 15, 2013 8:20 AM

To: bobbi@phoenixlabs.com
Cc: James Hutton

Subject: commercial foundry additional samples

Hi Bobbi. I would like to run some additional samples from our Commercial Foundry job (43369.82). Could you run concrete floor samples for PCBs by manual soxhlet for the following samples you have on hold:

A3-F-1 (0.5-1") - 13701

A3-F-3 (0.5-1") - 13703

A3-F-4 (0.5-1") - 13704

A3-F-5 (0.5-1") - 13705

A4-F-1 (0.5-1") - 13706

A4-F-6 (0.5-1") - 13711

A4-F-7 (0.5-1") - 13712

A5-F-1 (0.5-1") - 13713

A5-F-2 (0.5-1") - 13714

A5-F-3 (0.5-1") - 13715

A5-F-4 (0.5-1") - 13716

A5-F-5 (0.5-1") - 13717

A10-F-1 (0.5-1") - 13718

A10-F-3 (0.5-1") - 13720

A10-F-6 (0.5-1") - 13723

A10-F-7 (0.5-1") - 13724

A10-F-11 (0.5-1") - 13728

A10-F-12 (0.5-1") - 13729

A10-F-15 (0.5-1") - 13732

A10-F-16 (0.5-1") - 13733

A10-F-17 (0.5-1") - 13734

A10-F-18 (0.5-1") - 13735

A10-F-19 (0.5-1") - 13736

A10-F-20 (0.5-1") - 13737

A14-F-5 (0.5-1") - 13741

Thank you. Please give myself or Jim Hutton a call with any questions.

Benjamin A. Graham

Environmental Scientist

GZA GeoEnvironmental Inc.

655 Winding Brook Drive, Suite 402

Glastonbury CT 06033

Office: (860) 858-3129

Cell: (860) 227-6971

Fax: (860) 652-8590

1/15/2013

13050
13701
13725

Bobbi - Phoenixlabs

From: Benjamin Graham [Benjamin.Graham@gza.com]
Sent: Tuesday, January 15, 2013 9:42 AM
To: bobbi@phoenixlabs.com
Cc: James Hutton

Subject: more comm foundry add ons (43369.82)

Bobbi, could we also run:

A14-S-18 (5-5.25') & (5.75-6'), A14-S-19 (5-5.25') and A14-S-20 (5-5.25') for PCBs by Manual Soxhlet

A1-S-4 (0-6") for PAHs and ETPH
A1-S-6 (0-2') for PAHs

Thanks again!

Benjamin A. Graham
Environmental Scientist
GZA GeoEnvironmental Inc.
655 Winding Brook Drive, Suite 402
Glastonbury CT 06033
Office: (860) 858-3129
Cell: (860) 227-6971
Fax: (860) 652-8590

GZA Proactive by Design

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For information about GZA GeoEnvironmental, Inc. and its services, please visit our website at www.gza.com.

1/15/2013



Tuesday, January 08, 2013

Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Project ID: COMMERCIAL FOUNDRY
Sample ID#s: BD13859 - BD13875

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 08, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

12/28/12 8:15
12/28/12 15:04

Laboratory Data

SDG ID: GBD13859
Phoenix ID: BD13859

Project ID: COMMERCIAL FOUNDRY
Client ID: A14-PW-1

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	12/31/12	SW	E160.3
Extraction for PCB	Completed			12/31/12	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.81	mg/kg	01/02/13	AW	3540C/8082
PCB-1221	ND	0.81	mg/kg	01/02/13	AW	3540C/8082
PCB-1232	ND	0.81	mg/kg	01/02/13	AW	3540C/8082
PCB-1242	ND	0.81	mg/kg	01/02/13	AW	3540C/8082
PCB-1248	*	0.81	mg/kg	01/02/13	AW	3540C/8082
PCB-1254	*	0.81	mg/kg	01/02/13	AW	3540C/8082
PCB-1260	ND	0.81	mg/kg	01/02/13	AW	3540C/8082
PCB-1262	ND	0.81	mg/kg	01/02/13	AW	3540C/8082
PCB-1268	ND	0.81	mg/kg	01/02/13	AW	3540C/8082
Total PCBs	2.8	0.81	mg/kg	01/02/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	93	%	01/02/13	AW	30 - 150 %
% TCMX	88	%	01/02/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

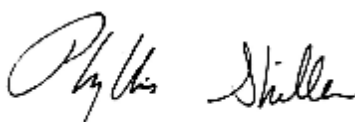
%SOLIDS ASSUMED 100%

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 08, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 08, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

12/28/12 7:30
12/28/12 15:04

Laboratory Data

SDG ID: GBD13859
Phoenix ID: BD13860

Project ID: COMMERCIAL FOUNDRY
Client ID: A14-PW-3

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	12/31/12	SW	E160.3
Extraction for PCB	Completed			12/31/12	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.76	mg/kg	01/03/13	AW	3540C/8082
PCB-1221	ND	0.76	mg/kg	01/03/13	AW	3540C/8082
PCB-1232	ND	0.76	mg/kg	01/03/13	AW	3540C/8082
PCB-1242	ND	0.76	mg/kg	01/03/13	AW	3540C/8082
PCB-1248	*	0.76	mg/kg	01/03/13	AW	3540C/8082
PCB-1254	ND	0.76	mg/kg	01/03/13	AW	3540C/8082
PCB-1260	ND	0.76	mg/kg	01/03/13	AW	3540C/8082
PCB-1262	ND	0.76	mg/kg	01/03/13	AW	3540C/8082
PCB-1268	ND	0.76	mg/kg	01/03/13	AW	3540C/8082
Total PCBs	6.7	0.76	mg/kg	01/03/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	104	%	01/03/13	AW	30 - 150 %
% TCMX	93	%	01/03/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

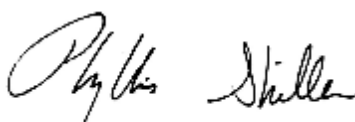
%SOLIDS ASSUMED 100%

* For PCBs, as per section 11.9.3, when weathering of PCBs is present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles aroclor 1248.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 08, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 08, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

12/28/12 8:45
12/28/12 15:04

Laboratory Data

SDG ID: GBD13859
Phoenix ID: BD13861

Project ID: COMMERCIAL FOUNDRY
Client ID: A14-PW-6

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	12/31/12	SW	E160.3
Extraction for PCB	Completed			12/31/12	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	2.8	mg/kg	01/03/13	AW	3540C/8082
PCB-1221	ND	2.8	mg/kg	01/03/13	AW	3540C/8082
PCB-1232	ND	2.8	mg/kg	01/03/13	AW	3540C/8082
PCB-1242	ND	2.8	mg/kg	01/03/13	AW	3540C/8082
PCB-1248	*	2.8	mg/kg	01/03/13	AW	3540C/8082
PCB-1254	*	2.8	mg/kg	01/03/13	AW	3540C/8082
PCB-1260	ND	2.8	mg/kg	01/03/13	AW	3540C/8082
PCB-1262	ND	2.8	mg/kg	01/03/13	AW	3540C/8082
PCB-1268	ND	2.8	mg/kg	01/03/13	AW	3540C/8082
Total PCBs	14	2.8	mg/kg	01/03/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	141	%	01/03/13	AW	30 - 150 %
% TCMX	127	%	01/03/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

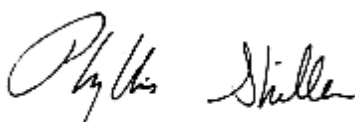
%SOLIDS ASSUMED 100%

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 08, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 08, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

12/28/12 9:00
12/28/12 15:04

Laboratory Data

SDG ID: GBD13859
Phoenix ID: BD13862

Project ID: COMMERCIAL FOUNDRY
Client ID: A14-PW-5

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	12/31/12	SW	E160.3
Extraction for PCB	Completed			12/31/12	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.58	mg/kg	01/02/13	AW	3540C/8082
PCB-1221	ND	0.58	mg/kg	01/02/13	AW	3540C/8082
PCB-1232	ND	0.58	mg/kg	01/02/13	AW	3540C/8082
PCB-1242	ND	0.58	mg/kg	01/02/13	AW	3540C/8082
PCB-1248	*	0.58	mg/kg	01/02/13	AW	3540C/8082
PCB-1254	*	0.58	mg/kg	01/02/13	AW	3540C/8082
PCB-1260	ND	0.58	mg/kg	01/02/13	AW	3540C/8082
PCB-1262	ND	0.58	mg/kg	01/02/13	AW	3540C/8082
PCB-1268	ND	0.58	mg/kg	01/02/13	AW	3540C/8082
Total PCBs	0.85	0.58	mg/kg	01/02/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	100	%	01/02/13	AW	30 - 150 %
% TCMX	86	%	01/02/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

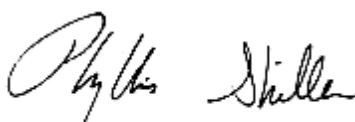
%SOLIDS ASSUMED 100%

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 08, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 08, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

12/28/12 9:15
12/28/12 15:04

Laboratory Data

SDG ID: GBD13859
Phoenix ID: BD13863

Project ID: COMMERCIAL FOUNDRY
Client ID: A14-PW-4

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	12/31/12	SW	E160.3
Extraction for PCB	Completed			12/31/12	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	1.8	mg/kg	01/03/13	AW	3540C/8082
PCB-1221	ND	1.8	mg/kg	01/03/13	AW	3540C/8082
PCB-1232	ND	1.8	mg/kg	01/03/13	AW	3540C/8082
PCB-1242	ND	1.8	mg/kg	01/03/13	AW	3540C/8082
PCB-1248	*	1.8	mg/kg	01/03/13	AW	3540C/8082
PCB-1254	*	1.8	mg/kg	01/03/13	AW	3540C/8082
PCB-1260	ND	1.8	mg/kg	01/03/13	AW	3540C/8082
PCB-1262	ND	1.8	mg/kg	01/03/13	AW	3540C/8082
PCB-1268	ND	1.8	mg/kg	01/03/13	AW	3540C/8082
Total PCBs	18	1.8	mg/kg	01/03/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	140	%	01/03/13	AW	30 - 150 %
% TCMX	126	%	01/03/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

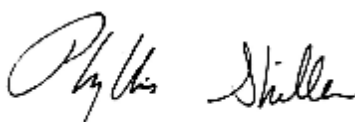
%SOLIDS ASSUMED 100%

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

January 08, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 08, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

12/28/12 9:00
12/28/12 15:04

Laboratory Data

SDG ID: GBD13859
Phoenix ID: BD13864

Project ID: COMMERCIAL FOUNDRY
Client ID: A10-PW-12

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	12/31/12	SW	E160.3
Extraction for PCB	Completed			12/31/12	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	2.5	mg/kg	01/03/13	AW	3540C/8082
PCB-1221	ND	2.5	mg/kg	01/03/13	AW	3540C/8082
PCB-1232	ND	2.5	mg/kg	01/03/13	AW	3540C/8082
PCB-1242	ND	2.5	mg/kg	01/03/13	AW	3540C/8082
PCB-1248	23	2.5	mg/kg	01/03/13	AW	3540C/8082
PCB-1254	ND	2.5	mg/kg	01/03/13	AW	3540C/8082
PCB-1260	ND	2.5	mg/kg	01/03/13	AW	3540C/8082
PCB-1262	ND	2.5	mg/kg	01/03/13	AW	3540C/8082
PCB-1268	ND	2.5	mg/kg	01/03/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	136	%	01/03/13	AW	30 - 150 %
% TCMX	119	%	01/03/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

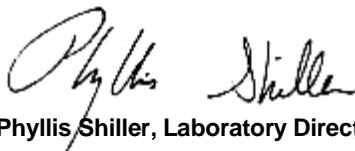
Comments:

%SOLIDS ASSUMED 100%

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Phyllis Shiller, Laboratory Director

January 08, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 08, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

12/28/12 9:30
12/28/12 15:04

Laboratory Data

SDG ID: GBD13859
Phoenix ID: BD13865

Project ID: COMMERCIAL FOUNDRY
Client ID: A5-PW-2

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	12/31/12	SW	E160.3
Extraction for PCB	Completed			12/31/12	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.82	mg/kg	01/03/13	AW	3540C/8082
PCB-1221	ND	0.82	mg/kg	01/03/13	AW	3540C/8082
PCB-1232	ND	0.82	mg/kg	01/03/13	AW	3540C/8082
PCB-1242	ND	0.82	mg/kg	01/03/13	AW	3540C/8082
PCB-1248	*	0.82	mg/kg	01/03/13	AW	3540C/8082
PCB-1254	ND	0.82	mg/kg	01/03/13	AW	3540C/8082
PCB-1260	ND	0.82	mg/kg	01/03/13	AW	3540C/8082
PCB-1262	ND	0.82	mg/kg	01/03/13	AW	3540C/8082
PCB-1268	ND	0.82	mg/kg	01/03/13	AW	3540C/8082
Total PCBs	9.1	0.82	mg/kg	01/03/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	99	%	01/03/13	AW	30 - 150 %
% TCMX	92	%	01/03/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

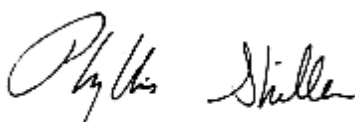
%SOLIDS ASSUMED 100%

* For PCBs, as per section 11.9.3, when weathering of PCBs is present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles aroclor 1248.

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Phyllis Shiller, Laboratory Director

January 08, 2013

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Analysis Report

January 08, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

12/28/12 9:40
12/28/12 15:04

Laboratory Data

SDG ID: GBD13859
Phoenix ID: BD13866

Project ID: COMMERCIAL FOUNDRY
Client ID: A5-PW-3

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	12/31/12	SW	E160.3
Extraction for PCB	Completed			12/31/12	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.59	mg/kg	01/03/13	AW	3540C/8082
PCB-1221	ND	0.59	mg/kg	01/03/13	AW	3540C/8082
PCB-1232	ND	0.59	mg/kg	01/03/13	AW	3540C/8082
PCB-1242	ND	0.59	mg/kg	01/03/13	AW	3540C/8082
PCB-1248	*	0.59	mg/kg	01/03/13	AW	3540C/8082
PCB-1254	ND	0.59	mg/kg	01/03/13	AW	3540C/8082
PCB-1260	ND	0.59	mg/kg	01/03/13	AW	3540C/8082
PCB-1262	ND	0.59	mg/kg	01/03/13	AW	3540C/8082
PCB-1268	ND	0.59	mg/kg	01/03/13	AW	3540C/8082
Total PCBs	6.4	0.59	mg/kg	01/03/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	99	%	01/03/13	AW	30 - 150 %
% TCMX	81	%	01/03/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

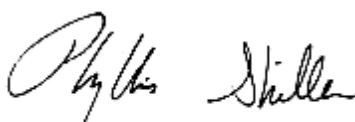
%SOLIDS ASSUMED 100%

* For PCBs, as per section 11.9.3, when weathering of PCBs is present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles aroclor 1248.

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Phyllis Shiller, Laboratory Director

January 08, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 08, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

12/28/12 9:50
12/28/12 15:04

Laboratory Data

SDG ID: GBD13859
Phoenix ID: BD13867

Project ID: COMMERCIAL FOUNDRY
Client ID: A14-PW-2

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	12/31/12	SW	E160.3
Extraction for PCB	Completed			12/31/12	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.51	mg/kg	01/03/13	AW	3540C/8082
PCB-1221	ND	0.51	mg/kg	01/03/13	AW	3540C/8082
PCB-1232	ND	0.51	mg/kg	01/03/13	AW	3540C/8082
PCB-1242	ND	0.51	mg/kg	01/03/13	AW	3540C/8082
PCB-1248	*	0.51	mg/kg	01/03/13	AW	3540C/8082
PCB-1254	ND	0.51	mg/kg	01/03/13	AW	3540C/8082
PCB-1260	ND	0.51	mg/kg	01/03/13	AW	3540C/8082
PCB-1262	ND	0.51	mg/kg	01/03/13	AW	3540C/8082
PCB-1268	ND	0.51	mg/kg	01/03/13	AW	3540C/8082
Total PCBs	4.1	0.51	mg/kg	01/03/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	108	%	01/03/13	AW	30 - 150 %
% TCMX	96	%	01/03/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

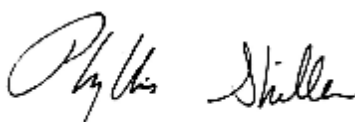
%SOLIDS ASSUMED 100%

* For PCBs, as per section 11.9.3, when weathering of PCBs is present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles aroclor 1248.

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Phyllis Shiller, Laboratory Director

January 08, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 08, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

12/28/12 9:55
12/28/12 15:04

Laboratory Data

SDG ID: GBD13859
Phoenix ID: BD13868

Project ID: COMMERCIAL FOUNDRY
Client ID: A5-PW-1

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	12/31/12	SW	E160.3
Extraction for PCB	Completed			12/31/12	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	3	mg/kg	01/04/13	AW	3540C/8082
PCB-1221	ND	3	mg/kg	01/04/13	AW	3540C/8082
PCB-1232	ND	3	mg/kg	01/04/13	AW	3540C/8082
PCB-1242	ND	3	mg/kg	01/04/13	AW	3540C/8082
PCB-1248	*	3	mg/kg	01/04/13	AW	3540C/8082
PCB-1254	*	3	mg/kg	01/04/13	AW	3540C/8082
PCB-1260	ND	3	mg/kg	01/04/13	AW	3540C/8082
PCB-1262	ND	3	mg/kg	01/04/13	AW	3540C/8082
PCB-1268	ND	3	mg/kg	01/04/13	AW	3540C/8082
Total PCBs	9.6	3	mg/kg	01/04/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	126	%	01/04/13	AW	30 - 150 %
% TCMX	116	%	01/04/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

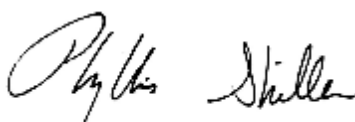
%SOLIDS ASSUMED 100%

* For PCBs, as per section 11.9.3, when weathering of PCBs is present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles aroclor 1248 and 1254.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

January 08, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 08, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

12/28/12 10:45
12/28/12 15:04

Laboratory Data

SDG ID: GBD13859
Phoenix ID: BD13869

Project ID: COMMERCIAL FOUNDRY
Client ID: A10-PW-11

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	12/31/12	SW	E160.3
Extraction for PCB	Completed			12/31/12	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	29	mg/kg	01/07/13	AW	3540C/8082
PCB-1221	ND	29	mg/kg	01/07/13	AW	3540C/8082
PCB-1232	ND	29	mg/kg	01/07/13	AW	3540C/8082
PCB-1242	ND	29	mg/kg	01/07/13	AW	3540C/8082
PCB-1248	*	29	mg/kg	01/07/13	AW	3540C/8082
PCB-1254	*	29	mg/kg	01/07/13	AW	3540C/8082
PCB-1260	ND	29	mg/kg	01/07/13	AW	3540C/8082
PCB-1262	ND	29	mg/kg	01/07/13	AW	3540C/8082
PCB-1268	ND	29	mg/kg	01/07/13	AW	3540C/8082
Total PCBs	72	29	mg/kg	01/07/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out	%	01/07/13	AW	30 - 150 %
% TCMX	Diluted Out	%	01/07/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

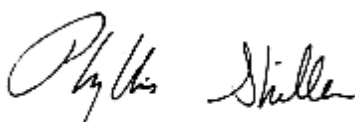
%SOLIDS ASSUMED 100%

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

January 08, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 08, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.82

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

12/28/12 11:25
12/28/12 15:04

Laboratory Data

SDG ID: GBD13859
Phoenix ID: BD13870

Project ID: COMMERCIAL FOUNDRY
Client ID: A4-PW-1

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	12/31/12	SW	E160.3
Extraction for PCB	Completed			12/31/12	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	1.6	mg/kg	01/02/13	AW	3540C/8082
PCB-1221	ND	1.6	mg/kg	01/02/13	AW	3540C/8082
PCB-1232	ND	1.6	mg/kg	01/02/13	AW	3540C/8082
PCB-1242	ND	1.6	mg/kg	01/02/13	AW	3540C/8082
PCB-1248	*	1.6	mg/kg	01/02/13	AW	3540C/8082
PCB-1254	*	1.6	mg/kg	01/02/13	AW	3540C/8082
PCB-1260	ND	1.6	mg/kg	01/02/13	AW	3540C/8082
PCB-1262	ND	1.6	mg/kg	01/02/13	AW	3540C/8082
PCB-1268	ND	1.6	mg/kg	01/02/13	AW	3540C/8082
Total PCBs	9.3	1.6	mg/kg	01/02/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out	%	01/02/13	AW	30 - 150 %
% TCMX	Diluted Out	%	01/02/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

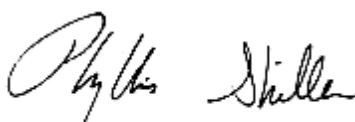
%SOLIDS ASSUMED 100%

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254.

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Phyllis Shiller, Laboratory Director

January 08, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 08, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: 48 Hour
P.O.#: 43369.82

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

12/28/12 11:40
12/28/12 15:04

Laboratory Data

SDG ID: GBD13859
Phoenix ID: BD13871

Project ID: COMMERCIAL FOUNDRY
Client ID: A4-PW-2

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	12/31/12	SW	E160.3
Extraction for PCB	Completed			12/31/12	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	14	mg/kg	01/02/13	AW	3540C/8082
PCB-1221	ND	14	mg/kg	01/02/13	AW	3540C/8082
PCB-1232	ND	14	mg/kg	01/02/13	AW	3540C/8082
PCB-1242	ND	14	mg/kg	01/02/13	AW	3540C/8082
PCB-1248	*	14	mg/kg	01/02/13	AW	3540C/8082
PCB-1254	*	14	mg/kg	01/02/13	AW	3540C/8082
PCB-1260	ND	14	mg/kg	01/02/13	AW	3540C/8082
PCB-1262	ND	14	mg/kg	01/02/13	AW	3540C/8082
PCB-1268	ND	14	mg/kg	01/02/13	AW	3540C/8082
Total PCBs	58	14	mg/kg	01/02/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out	%	01/02/13	AW	30 - 150 %
% TCMX	Diluted Out	%	01/02/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

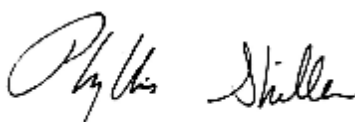
%SOLIDS ASSUMED 100%

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 08, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 08, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: 48 Hour
P.O.#: 43369.82

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

12/28/12 11:55
12/28/12 15:04

Laboratory Data

SDG ID: GBD13859
Phoenix ID: BD13872

Project ID: COMMERCIAL FOUNDRY
Client ID: A4-PW-3

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	12/31/12	SW	E160.3
Extraction for PCB	Completed			12/31/12	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	3.1	mg/kg	01/02/13	AW	3540C/8082
PCB-1221	ND	3.1	mg/kg	01/02/13	AW	3540C/8082
PCB-1232	ND	3.1	mg/kg	01/02/13	AW	3540C/8082
PCB-1242	ND	3.1	mg/kg	01/02/13	AW	3540C/8082
PCB-1248	*	3.1	mg/kg	01/02/13	AW	3540C/8082
PCB-1254	*	3.1	mg/kg	01/02/13	AW	3540C/8082
PCB-1260	ND	3.1	mg/kg	01/02/13	AW	3540C/8082
PCB-1262	ND	3.1	mg/kg	01/02/13	AW	3540C/8082
PCB-1268	ND	3.1	mg/kg	01/02/13	AW	3540C/8082
Total PCBs	29	3.1	mg/kg	01/02/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out	%	01/02/13	AW	30 - 150 %
% TCMX	Diluted Out	%	01/02/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

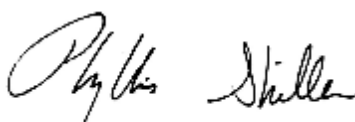
%SOLIDS ASSUMED 100%

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 08, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 08, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: 24 Hour
P.O.#: 43369.82

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

<u>Date</u>	<u>Time</u>
12/28/12	12:50
12/28/12	15:04

Laboratory Data

SDG ID: GBD13859
Phoenix ID: BD13873

Project ID: COMMERCIAL FOUNDRY
Client ID: A3-S4 4-6

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	82		%	12/28/12	JL	E160.3
Extraction of CT ETPH	Completed			12/31/12	BS/V	3545
Extraction for PCB	Completed				BB/E	SW3540C

TPH by GC (Extractable Products)

Ext. Petroleum HC	300	12	mg/Kg	01/02/13	JRB	CT ETPH/8015
Identification	**		mg/Kg	01/02/13	JRB	CT ETPH/8015

QA/QC Surrogates

% n-Pentacosane	87		%	01/02/13	JRB	50 - 150 %
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C14 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

January 08, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 08, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: 24 Hour
P.O.#: 43369.82

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

<u>Date</u>	<u>Time</u>
12/28/12	13:15
12/28/12	15:04

Laboratory Data

SDG ID: GBD13859
Phoenix ID: BD13874

Project ID: COMMERCIAL FOUNDRY
Client ID: A3-S14 0-8 INCHES

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	86		%	12/28/12	JL	E160.3
Extraction of CT ETPH	Completed			12/31/12	BS/V	3545
Extraction for PCB	Completed				BB/E	SW3540C

TPH by GC (Extractable Products)

Ext. Petroleum HC	490	23	mg/Kg	01/02/13	JRB	CT ETPH/8015
Identification	**		mg/Kg	01/02/13	JRB	CT ETPH/8015

QA/QC Surrogates

% n-Pentacosane	84		%	01/02/13	JRB	50 - 150 %
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C12 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director

January 08, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
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Analysis Report

January 08, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: 24 Hour
P.O.#: 43369.82

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

<u>Date</u>	<u>Time</u>
12/28/12	13:30
12/28/12	15:04

Laboratory Data

SDG ID: GBD13859
Phoenix ID: BD13875

Project ID: COMMERCIAL FOUNDRY
Client ID: A1-S6 0-2 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	82		%	12/28/12	JL	E160.3
Extraction of CT ETPH	Completed			12/31/12	BS/V	3545
Extraction for PCB	Completed				BB/E	SW3540C

TPH by GC (Extractable Products)

Ext. Petroleum HC	1100	12	mg/Kg	01/02/13	JRB	CT ETPH/8015
Identification	**		mg/Kg	01/02/13	JRB	CT ETPH/8015

QA/QC Surrogates

% n-Pentacosane	118		%	01/02/13	JRB	50 - 150 %
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C9 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director

January 08, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

January 08, 2013

QA/QC Data

SDG I.D.: GBD13859

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 217438, QC Sample No: BD13685 (BD13859, BD13860, BD13861, BD13862)									
Polychlorinated Biphenyls - Solid									
PCB-1016	ND	94	85	10.1				40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	98	91	7.4				40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	83	90	86	4.5				30 - 150	30
% TCMX (Surrogate Rec)	81	92	86	6.7				30 - 150	30

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

QA/QC Batch 217439, QC Sample No: BD13873 (BD13863, BD13864, BD13865, BD13866, BD13867, BD13868, BD13869, BD13870, BD13871, BD13872, BD13873, BD13874, BD13875)

Polychlorinated Biphenyls - Solid

PCB-1016	ND	70	76	8.2	73			40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	76	79	3.9	83			40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	95	92	97	5.3	96			30 - 150	30
% TCMX (Surrogate Rec)	71	79	75	5.2	80			30 - 150	30

QA/QC Batch 217478, QC Sample No: BD14135 (BD13873, BD13874, BD13875)

TPH by GC (Extractable Products) - Solid

Ext. Petroleum HC	ND	66	87	27.5	77	93	18.8	50 - 150	30
% n-Pentacosane	76	65	87	28.9	68	79	15.0	50 - 150	30

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

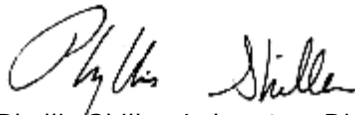
LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference


Phyllis Shiller, Laboratory Director
January 08, 2013

QA/QC Data

SDG I.D.: GBD13859

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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Tuesday, January 08, 2013

Requested Criteria: None

State: CT

Sample Criteria Exceedences Report

GBD13859 - GZA-PCB

Page 1 of 1

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** GZA-PCB

Project Location: COMMERCIAL FOUNDRY **Project Number:**

Laboratory Sample ID(s): BD13859, BD13860, BD13861, BD13862, BD13863, BD13864, BD13865, BD13866, BD13867, BD13868, BD13869, BD13870, BD13871, BD13872, BD13873, BD13874, BD13875

Sampling Date(s): 12/28/2012

RCP Methods Used:

☐ 1311/1312 ☐ 6010 ☐ 7000 ☐ 7196 ☐ 7470/7471 ☐ 8081 ☐ EPH ☐ TO15
☒ 8082 ☐ 8151 ☐ 8260 ☐ 8270 ☒ ETPH ☐ 9010/9012 ☐ VPH

1.	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1a.	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1b.	EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2.	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4.	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5a.	Were reporting limits specified or referenced on the chain-of-custody?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5b.	Were these reporting limits met?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
6.	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

Note: For all questions to which the response was "No" (with the exception of question #5a, #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized
Signature: _____



Date: Tuesday, January 08, 2013
Printed Name: Greg Lawrence
Position: Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

January 08, 2013

SDG LD.: GBD13859

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Au-fid1 01/02/13-1 (BD13873)

Initial Calibration (FID1 - ETPH_1) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

The daily continuing calibration standard was within method criteria of +/- 30 %D.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers: None

Printed Name Jeff Bucko
Position: Chemist
Date: 1/2/2013

Instrument: Au-xl1 01/02/13-1 (BD13875)

Initial Calibration (FIDXL1 ETPH_1) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

The daily continuing calibration standard was within method criteria of +/- 30 %D.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers: None

Printed Name Jeff Bucko
Position: Chemist
Date: 1/2/2013

Instrument: Au-xl2 01/02/13-1 (BD13874)

Initial Calibration (FID1 - ETPH_1) - The initial calibration curve was within method criteria and had a %RSD less than 30%.

The daily continuing calibration standard was within method criteria of +/- 30 %D.

As per section 7.2.3, a discrimination check standard was run and contained the following outliers: none

Printed Name Jeff Bucko
Position: Chemist
Date: 1/2/2013

QC Comments: QC Batch 17478 12/31/12 (BD13873, BD13874, BD13875)



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

January 08, 2013

SDG ID.: GBD13859

QC (Batch Specific)

----- Sample No: BD14135, QA/QC Batch: 217478 -----

All LCS recoveries were within 50 - 150 with the following exceptions: None.

All LCSD recoveries were within 50 - 150 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Au-ecd1 01/07/13-1 (BD13869)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 1/7/2013

Instrument: Au-ecd3 01/02/13-1 (BD13862, BD13871)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 1/2/2013

Instrument: Au-ecd35 01/02/13-1 (BD13859, BD13870, BD13871, BD13872)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 1/2/2013



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

January 08, 2013

SDG ID.: GBD13859

Instrument: Au-ecd35 01/03/13-1 (BD13860, BD13861, BD13863, BD13864, BD13865, BD13866, BD13867, BD13868)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner

Position: Chemist

Date: 1/3/2013

QC Comments: QC Batch 17438 12/28/12 (BD13859, BD13860, BD13861, BD13862)

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

QC Comments: QC Batch 17439 12/28/12 (BD13863, BD13864, BD13865, BD13866, BD13867, BD13868, BD13869, BD13870, BD13871, BD13872)

QC (Site Specific)

----- Sample No: BD13873, QA/QC Batch: 217439 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

QC (Batch Specific)

----- Sample No: BD13685, QA/QC Batch: 217438 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Temperature Narration

The samples were received at 1C with cooling initiated.
(Note acceptance criteria is above freezing up to 6°C)



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

January 08, 2013

SDG LD.: GBD13859

Cooler: Yes ☒ No ☐
Coolant: IPK ☐ ICE ☐ N ☐

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726



Customer: GZA Project: Commercial Forestry Project P.O.: 43369.82
Address: 655 Windark Brook DL Report to: J.M. Hutton Phone #:
Guinstanbury CT 06033 Invoice to: J.M. Hutton Fax #:

Client Sample - Information - Identification
Sampler's Signature: [Signature] Date: 12/25/12
Matrix Code:

DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
SE=Sediment SL=Sludge S=Soil/Solid W=Wipe O=Other

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
13859	A4-PW-1	0	12/25/12	815
13860	A14-PW-3	0	12/25/12	730
13861	A14-PW-6	0	12/25/12	845
13862	A14-PW-5	0	12/25/12	900
13863	A14-PW-4	0	12/25/12	915
13864	A10-PW-12	0	12/25/12	900
13865	A5-PW-2	0	12/25/12	930
13866	A5-PW-3	0	12/25/12	940
13867	A14-PW-2	0	12/25/12	950
13868	A5-PW-1	0	12/25/12	955
13869	A10-PW-11	0	12/25/12	1045
13870	A4-PW-1	0	12/25/12	1125

Analysis Request

Soil VOA Vial () methanol () H2O	
GL Soil container () oz	
GL Amber 1000ml () As () HCl	
PL As () [250ml] [500ml] [1000ml]	
PL H2SO4 () [250ml] [500ml] [1000ml]	
PL HNO3 250ml	
Bacteria Bottle	

RI	Direct Exposure (Residential)	GW	Other	CI	RCP Cert	GW Protection	SW Protection	GA Mobility	GB Mobility	Residential DEC	I/C DEC	Other	MA	MCP Certification	GW-1	GW-2	GW-3	S-1	S-2	S-3	MWRA eSMART	Other	Data Format	Excel	PDF	GIS/Key	EQUIS	Other	Data Package	Tier II Checklist	Full Data Package*	Phoenix Std Report	Other	* SURCHARGE APPLIES		

Relinquished by: [Signature] Accepted by: [Signature]
Date: 12/25/12 Time: 5:4
Turnaround: ☐ 1 Day* ☐ 2 Days* ☐ 3 Days* ☒ Standard ☐ Other
Comments, Special Requirements or Regulations: 0-PWNT/CONCRETE, PAINT/BRICK, PAINT/DRYWALL
State where samples were collected: CT
* SURCHARGE APPLIES



Wednesday, January 16, 2013

Attn: Mr. James Hutton
GZA GeoEnvironmental, Inc.
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Project ID: COMMERCIAL FOUNDRY 43369.82
Sample ID#s: BD18412

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 16, 2013

FOR: Attn: Mr. James Hutton
GZA GeoEnvironmental, Inc.
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

01/10/13 15:00
01/11/13 14:42

Laboratory Data

SDG ID: GBD18412
Phoenix ID: BD18412

Project ID: COMMERCIAL FOUNDRY 43369.82
Client ID: EXT-101 4.5-4.75 FT

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	81		%	01/11/13	JL	E160.3
Extraction for PCB	Completed			01/11/13	BB/E	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.4	mg/kg	01/14/13	AW	3540C/8082
PCB-1221	ND	0.4	mg/kg	01/14/13	AW	3540C/8082
PCB-1232	ND	0.4	mg/kg	01/14/13	AW	3540C/8082
PCB-1242	ND	0.4	mg/kg	01/14/13	AW	3540C/8082
PCB-1248	ND	0.4	mg/kg	01/14/13	AW	3540C/8082
PCB-1254	ND	0.4	mg/kg	01/14/13	AW	3540C/8082
PCB-1260	ND	0.4	mg/kg	01/14/13	AW	3540C/8082
PCB-1262	ND	0.4	mg/kg	01/14/13	AW	3540C/8082
PCB-1268	ND	0.4	mg/kg	01/14/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	89	%	01/14/13	AW	30 - 150 %
% TCMX	85	%	01/14/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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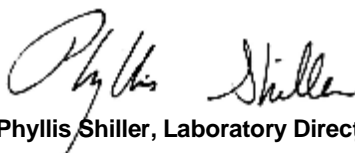
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

January 16, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

January 16, 2013

QA/QC Data

SDG I.D.: GBD18412

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 218256, QC Sample No: BD18200 (BD18412)									
<u>Polychlorinated Biphenyls - Soil</u>									
PCB-1016	ND	88	87	1.1	95	94	1.1	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	92	94	2.2	96	95	1.0	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	90	86	89	3.4	88	88	0.0	30 - 150	30
% TCMX (Surrogate Rec)	83	82	81	1.2	94	93	1.1	30 - 150	30

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis Shiller, Laboratory Director
January 16, 2013

Wednesday, January 16, 2013

Requested Criteria: GAM, RC

State: CT

Sample Criteria Exceedences Report

GBD18412 - GZA-PCB

Page 1 of 1

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
--------	-------	-----------------	----------	--------	----	----------	----------------	-------------------

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** GZA-PCB

Project Location: COMMERCIAL FOUNDRY 4336 **Project Number:**

Laboratory Sample ID(s): BD18412

Sampling Date(s): 1/10/2013

RCP Methods Used:

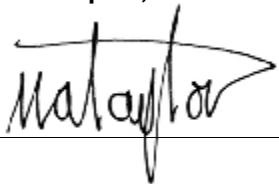
☐ 1311/1312 ☐ 6010 ☐ 7000 ☐ 7196 ☐ 7470/7471 ☐ 8081 ☐ EPH ☐ TO15
☒ 8082 ☐ 8151 ☐ 8260 ☐ 8270 ☐ ETPH ☐ 9010/9012 ☐ VPH

1.	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1a.	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1b.	EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2.	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4.	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5a.	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5b.	Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
6.	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA

Note: For all questions to which the response was "No" (with the exception of question #5a, #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized
Signature:



Date: Wednesday, January 16, 2013
Printed Name: Maryam Taylor
Position: Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

January 16, 2013

SDG I.D.: GBD18412

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Au-ecd8 01/14/13-1 (BD18412)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner

Position: Chemist

Date: 1/14/2013

QC Comments: QC Batch 18256 01/10/13 (BD18412)

QC (Batch Specific)

----- Sample No: BD18200, QA/QC Batch: 218256 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Temperature Narration

The samples were received at 6C with cooling initiated.
(Note acceptance criteria is above freezing up to 6°C)



CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Cooler: Yes ☒ No ☐
Coolant: IPK ☒ ACE ☐ N ☐

Temp 60 °C Pg 1 of 1

Data Delivery:

☐ Fax #:

☒ Email: james.hutton@egza.com

Customer: GZA

Address: 655 Winding Brook Drive

Gloucester CT 06033

Project: Chastain Fenway 43369.82

Report to: James Hutton

Invoice to: GZA

Project P.O.:

Phone #: 860 2868900

Fax #:

Client Sample - Information - Identification

Sampler's Signature

[Signature]

Date: 1/10/13

Matrix Code:

DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
SE=Sediment SL=Sludge S=Soil/Solid W=Wipe O=Other

PHOENIX USE ONLY SAMPLE #

18412 Ext-101 (45' x 45') S 1/10/13 1500

Analysis Request

PCBs - Metal Seals

Soil VOA Vial () methanol () HCl
GL Soil container () HCl
GL Soil container () HCl
GL Amber 1000ml () As Is () HCl
PL As Is () 250ml () 500ml () 1000ml
PL H2SO4 () 250ml () 500ml () 1000ml
PL HNO3 250ml
Bacteria Bottle

Relinquished by: [Signature] Accepted by: GZA Fenway

Date: 1/10/13 Time: 1020

RI ☐ Direct Exposure (Residential) ☐ GW ☐ Other

CT ☒ MCP Cert ☐ GW Protection ☐ SW Protection ☒ GA Mobility ☐ GB Mobility ☒ Residential DEC ☐ I/C DEC ☐ Other

MA ☐ MCP Certification ☐ GW-1 ☐ GW-2 ☐ GW-3 ☐ S-1 ☐ S-2 ☐ S-3 ☐ MWRA eSMART ☐ Other

Data Format ☒ Excel ☒ PDF ☐ GIS/Key ☐ EQUIS ☐ Other

Data Package ☐ Tier II Checklist ☐ Full Data Package* ☐ Phoenix Std Report ☐ Other

Turnaround: ☐ 1 Day* ☐ 2 Days* ☐ 3 Days* ☒ Standard ☐ Other

Comments, Special Requirements or Regulations: Detection Limits Less than 0.5 ppm

State where samples were collected: CT

* SURCHARGE APPLIES

* SURCHARGE APPLIES



Thursday, February 07, 2013

Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Project ID: COMMERCIAL FOUNDRY DUPS
Sample ID#s: BD25079 - BD25087

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 07, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

12/24/12
01/30/13

Time

9:45
11:00

Laboratory Data

SDG ID: GBD25079
Phoenix ID: BD25079

Project ID: COMMERCIAL FOUNDRY DUPS
Client ID: A-14-S-4 (D)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	83		%	01/30/13	JL	E160.3
Extraction for PCB	Completed			01/30/13	BB/A	SW3540C

PCB (Soxhlet)

PCB-1016	ND	40	mg/kg	02/01/13	AW	3540C/8082
PCB-1221	ND	40	mg/kg	02/01/13	AW	3540C/8082
PCB-1232	ND	40	mg/kg	02/01/13	AW	3540C/8082
PCB-1242	ND	40	mg/kg	02/01/13	AW	3540C/8082
PCB-1248	490	40	mg/kg	02/01/13	AW	3540C/8082
PCB-1254	ND	40	mg/kg	02/01/13	AW	3540C/8082
PCB-1260	ND	40	mg/kg	02/01/13	AW	3540C/8082
PCB-1262	ND	40	mg/kg	02/01/13	AW	3540C/8082
PCB-1268	ND	40	mg/kg	02/01/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out	%	02/01/13	AW	30 - 150 %
% TCMX	Diluted Out	%	02/01/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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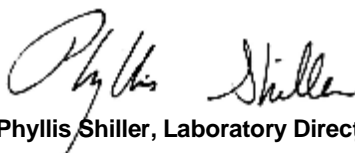
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

February 07, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 07, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/24/12 12:20
01/30/13 11:00

Laboratory Data

SDG ID: GBD25079
Phoenix ID: BD25080

Project ID: COMMERCIAL FOUNDRY DUPS
Client ID: A-14-S-3 (D)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	82		%	01/30/13	JL	E160.3
Extraction for PCB	Completed			01/30/13	BB/A	SW3540C

PCB (Soxhlet)

PCB-1016	ND	200	mg/kg	02/01/13	AW	3540C/8082
PCB-1221	ND	200	mg/kg	02/01/13	AW	3540C/8082
PCB-1232	ND	200	mg/kg	02/01/13	AW	3540C/8082
PCB-1242	ND	200	mg/kg	02/01/13	AW	3540C/8082
PCB-1248	570	200	mg/kg	02/01/13	AW	3540C/8082
PCB-1254	ND	200	mg/kg	02/01/13	AW	3540C/8082
PCB-1260	ND	200	mg/kg	02/01/13	AW	3540C/8082
PCB-1262	ND	200	mg/kg	02/01/13	AW	3540C/8082
PCB-1268	ND	200	mg/kg	02/01/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out	%	02/01/13	AW	30 - 150 %
% TCMX	Diluted Out	%	02/01/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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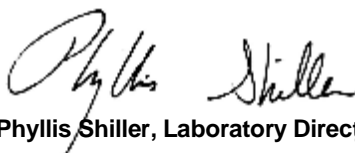
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

February 07, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 07, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/24/12 9:25
01/30/13 11:00

Laboratory Data

SDG ID: GBD25079
Phoenix ID: BD25081

Project ID: COMMERCIAL FOUNDRY DUPS
Client ID: Orangeburg Pipes (D)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	44		%	01/30/13	JL	E160.3
Extraction for PCB	Completed			01/30/13	BB/A	SW3540C

PCB (Soxhlet)

PCB-1016	ND	470	mg/kg	02/04/13	AW	3540C/8082
PCB-1221	ND	470	mg/kg	02/04/13	AW	3540C/8082
PCB-1232	ND	470	mg/kg	02/04/13	AW	3540C/8082
PCB-1242	ND	470	mg/kg	02/04/13	AW	3540C/8082
PCB-1248	1300	470	mg/kg	02/04/13	AW	3540C/8082
PCB-1254	ND	470	mg/kg	02/04/13	AW	3540C/8082
PCB-1260	ND	470	mg/kg	02/04/13	AW	3540C/8082
PCB-1262	ND	470	mg/kg	02/04/13	AW	3540C/8082
PCB-1268	ND	470	mg/kg	02/04/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out	%	02/04/13	AW	30 - 150 %
% TCMX	Diluted Out	%	02/04/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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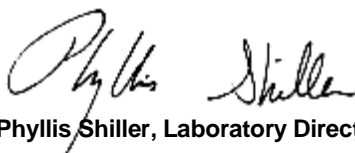
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

February 07, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 07, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/26/12 12:25
01/30/13 11:00

Laboratory Data

SDG ID: GBD25079
Phoenix ID: BD25082

Project ID: COMMERCIAL FOUNDRY DUPS
Client ID: A-14-F-5(0-0.5)D

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	97		%	01/30/13	JL	E160.3
Extraction for PCB	Completed			01/30/13	BB/A	SW3540C

PCB (Soxhlet)

PCB-1016	ND	3.4	mg/kg	02/01/13	AW	3540C/8082
PCB-1221	ND	3.4	mg/kg	02/01/13	AW	3540C/8082
PCB-1232	ND	3.4	mg/kg	02/01/13	AW	3540C/8082
PCB-1242	ND	3.4	mg/kg	02/01/13	AW	3540C/8082
PCB-1248	22	3.4	mg/kg	02/01/13	AW	3540C/8082
PCB-1254	ND	3.4	mg/kg	02/01/13	AW	3540C/8082
PCB-1260	ND	3.4	mg/kg	02/01/13	AW	3540C/8082
PCB-1262	ND	3.4	mg/kg	02/01/13	AW	3540C/8082
PCB-1268	ND	3.4	mg/kg	02/01/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out	%	02/01/13	AW	30 - 150 %
% TCMX	Diluted Out	%	02/01/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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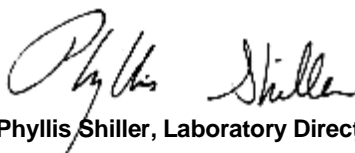
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

February 07, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 07, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

12/26/12
01/30/13

Time

14:25
11:00

Laboratory Data

SDG ID: GBD25079
Phoenix ID: BD25083

Project ID: COMMERCIAL FOUNDRY DUPS
Client ID: A-4-F-1(D)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	98		%	01/30/13	JL	E160.3
Extraction for PCB	Completed			01/30/13	BB/A	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.33	mg/kg	02/01/13	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	02/01/13	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	02/01/13	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	02/01/13	AW	3540C/8082
PCB-1248	*	0.33	mg/kg	02/01/13	AW	3540C/8082
PCB-1254	*	0.33	mg/kg	02/01/13	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	02/01/13	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	02/01/13	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	02/01/13	AW	3540C/8082
Total PCBs	4	0.33	mg/kg	02/01/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	85	%	02/01/13	AW	30 - 150 %
% TCMX	99	%	02/01/13	AW	30 - 150 %

Client ID: A-4-F-1(D)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

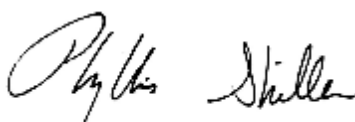
Comments:

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

February 07, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 07, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

12/26/12
01/30/13

Time

16:10
11:00

Laboratory Data

SDG ID: GBD25079
Phoenix ID: BD25084

Project ID: COMMERCIAL FOUNDRY DUPS
Client ID: A-10-F-15(0-0.5)D

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	99		%	01/30/13	JL	E160.3
Extraction for PCB	Completed			01/30/13	BB/A	SW3540C

PCB (Soxhlet)

PCB-1016	ND	1.6	mg/kg	02/01/13	AW	3540C/8082
PCB-1221	ND	1.6	mg/kg	02/01/13	AW	3540C/8082
PCB-1232	ND	1.6	mg/kg	02/01/13	AW	3540C/8082
PCB-1242	ND	1.6	mg/kg	02/01/13	AW	3540C/8082
PCB-1248	4	1.6	mg/kg	02/01/13	AW	3540C/8082
PCB-1254	ND	1.6	mg/kg	02/01/13	AW	3540C/8082
PCB-1260	ND	1.6	mg/kg	02/01/13	AW	3540C/8082
PCB-1262	ND	1.6	mg/kg	02/01/13	AW	3540C/8082
PCB-1268	ND	1.6	mg/kg	02/01/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out	%	02/01/13	AW	30 - 150 %
% TCMX	Diluted Out	%	02/01/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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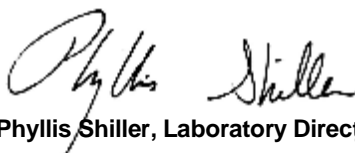
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

February 07, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 07, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

12/27/12
01/30/13

Time

11:00
11:00

Laboratory Data

SDG ID: GBD25079
Phoenix ID: BD25085

Project ID: COMMERCIAL FOUNDRY DUPS
Client ID: A-5-F-5(0-0.5)D

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	99		%	01/30/13	JL	E160.3
Extraction for PCB	Completed			01/30/13	BB/A	SW3540C

PCB (Soxhlet)

PCB-1016	ND	1.6	mg/kg	02/01/13	AW	3540C/8082
PCB-1221	ND	1.6	mg/kg	02/01/13	AW	3540C/8082
PCB-1232	ND	1.6	mg/kg	02/01/13	AW	3540C/8082
PCB-1242	ND	1.6	mg/kg	02/01/13	AW	3540C/8082
PCB-1248	4.9	1.6	mg/kg	02/01/13	AW	3540C/8082
PCB-1254	ND	1.6	mg/kg	02/01/13	AW	3540C/8082
PCB-1260	ND	1.6	mg/kg	02/01/13	AW	3540C/8082
PCB-1262	ND	1.6	mg/kg	02/01/13	AW	3540C/8082
PCB-1268	ND	1.6	mg/kg	02/01/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out	%	02/01/13	AW	30 - 150 %
% TCMX	Diluted Out	%	02/01/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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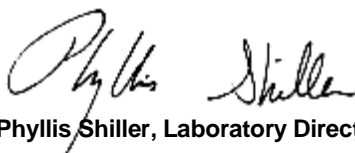
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

February 07, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 07, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

12/27/12
01/30/13

Time

12:45
11:00

Laboratory Data

SDG ID: GBD25079
Phoenix ID: BD25086

Project ID: COMMERCIAL FOUNDRY DUPS
Client ID: A10-PW-4(D)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	01/31/13	LB	E160.3
Extraction for PCB	Completed			01/30/13	BB/A	SW3540C

PCB (Soxhlet)

PCB-1016	ND	8	mg/kg	02/04/13	AW	3540C/8082
PCB-1221	ND	8	mg/kg	02/04/13	AW	3540C/8082
PCB-1232	ND	8	mg/kg	02/04/13	AW	3540C/8082
PCB-1242	ND	8	mg/kg	02/04/13	AW	3540C/8082
PCB-1248	*	8	mg/kg	02/04/13	AW	3540C/8082
PCB-1254	*	8	mg/kg	02/04/13	AW	3540C/8082
PCB-1260	ND	8	mg/kg	02/04/13	AW	3540C/8082
PCB-1262	ND	8	mg/kg	02/04/13	AW	3540C/8082
PCB-1268	ND	8	mg/kg	02/04/13	AW	3540C/8082
Total PCBs	53	8	mg/kg	02/04/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out	%	02/04/13	AW	30 - 150 %
% TCMX	Diluted Out	%	02/04/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

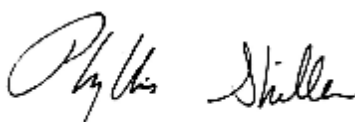
Comments:

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254.

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Phyllis Shiller, Laboratory Director

February 07, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 07, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

12/27/12
01/30/13

Time

8:10
11:00

Laboratory Data

SDG ID: GBD25079
Phoenix ID: BD25087

Project ID: COMMERCIAL FOUNDRY DUPS
Client ID: A10-PW-7(D)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	01/31/13	LB	E160.3
Extraction for PCB	Completed			01/30/13	BB/A	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.82	mg/kg	02/01/13	AW	3540C/8082
PCB-1221	ND	0.82	mg/kg	02/01/13	AW	3540C/8082
PCB-1232	ND	0.82	mg/kg	02/01/13	AW	3540C/8082
PCB-1242	ND	0.82	mg/kg	02/01/13	AW	3540C/8082
PCB-1248	1.3	0.82	mg/kg	02/01/13	AW	3540C/8082
PCB-1254	ND	0.82	mg/kg	02/01/13	AW	3540C/8082
PCB-1260	ND	0.82	mg/kg	02/01/13	AW	3540C/8082
PCB-1262	ND	0.82	mg/kg	02/01/13	AW	3540C/8082
PCB-1268	ND	0.82	mg/kg	02/01/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	82	%	02/01/13	AW	30 - 150 %
% TCMX	86	%	02/01/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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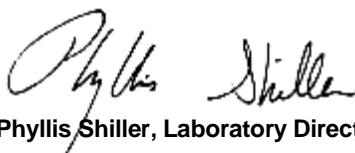
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

February 07, 2013

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Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

February 07, 2013

QA/QC Data

SDG I.D.: GBD25079

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 219963, QC Sample No: BD25080 (BD25079, BD25080, BD25081, BD25082, BD25083, BD25084, BD25085, BD25086, BD25087)									
<u>Polychlorinated Biphenyls - Solid</u>									
PCB-1016	ND	79	76	3.9				40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	69	67	2.9				40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	74	76	71	6.8				30 - 150	30
% TCMX (Surrogate Rec)	78	82	77	6.3				30 - 150	30

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis Shiller, Laboratory Director
February 07, 2013

Thursday, February 07, 2013

Requested Criteria: None

State: CT

Sample Criteria Exceedences Report

GBD25079 - GZA-PCB

Page 1 of 1

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** GZA-PCB

Project Location: COMMERCIAL FOUNDRY DUP **Project Number:**

Laboratory Sample ID(s): BD25079, BD25080, BD25081, BD25082, BD25083, BD25084, BD25085, BD25086, BD25087

Sampling Date(s): 12/24/2012, 12/26/2012, 12/27/2012

RCP Methods Used:

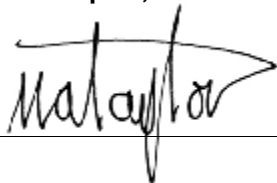
☐ 1311/1312 ☐ 6010 ☐ 7000 ☐ 7196 ☐ 7470/7471 ☐ 8081 ☐ EPH ☐ TO15
☒ 8082 ☐ 8151 ☐ 8260 ☐ 8270 ☐ ETPH ☐ 9010/9012 ☐ VPH

1.	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1a.	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1b.	EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2.	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4.	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5a.	Were reporting limits specified or referenced on the chain-of-custody?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5b.	Were these reporting limits met?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
6.	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA

Note: For all questions to which the response was "No" (with the exception of question #5a, #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized
Signature: _____



Date: Thursday, February 07, 2013
 Printed Name: Maryam Taylor
 Position: Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

February 07, 2013

SDG ID.: GBD25079

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Au-ecd1 02/01/13-1 (BD25079, BD25080, BD25082, BD25083, BD25084, BD25085, BD25087)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 2/1/2013

Instrument: Au-ecd24 02/04/13-1 (BD25081, BD25086)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 2/4/2013

QC (Site Specific)

----- Sample No: BD25080, QA/QC Batch: 219963 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

Loreen - Phoenixlabs

From: Anthony J. Trani [Anthony.Trani@gza.com]
Sent: Wednesday, January 30, 2013 9:59 AM
To: Loreen - Phoenixlabs
Subject: RE: December samples

Okay, lets have the dups for PCBs run on the following samples:

Soil Samples: 51 Samples; need 3 QA/QC

- ✓ BD12628 - A-14-S-4 = 420 mg/kg
- ✓ BD12637 - A-14-S-3 = 710 mg/kg
- ✓ BD12638 - Orangeburg Pipe = 6,100 mg/kg

Concrete Floor Samples: 76 Samples; need 4 QA/QC

- ✓ BD13694 - A-14-F-5 (0-0.5) = 20 mg/kg
- ✓ BD12969 - A-4-F-1 = 3.9 mg/kg
- ✓ BD12997 - A-10-F-15 (0-0.5) = 4.4 mg/kg
- ✓ BD12980 - A-5-F-5 (0-0.5) = 9.6 mg/kg

Ceiling Samples: 15 Samples; need 1 QA/QC

No samples available

Paint/Wall Samples: 24 Samples; need 2 QA/QC

- ✓ BD13683 - A10-PW-4 = 52 mg/kg
- ✓ BD13686 - A10-PW-7 = 1.2 mg/kg

Thanks
Anthony

From: Loreen - Phoenixlabs [mailto:loreen@phoenixlabs.com]
Sent: Wednesday, January 30, 2013 9:36 AM
To: Anthony J. Trani
Subject: RE: December samples

I have 13683, 13870, 13686...will any of these work? Loreen

From: Anthony J. Trani [mailto:Anthony.Trani@gza.com]
Sent: Wednesday, January 30, 2013 9:26 AM
To: Loreen - Phoenixlabs
Subject: RE: December samples

Loreen,

The PW samples are paint chip samples. Do you have any samples with a PW in them that we can resample?

From: Loreen - Phoenixlabs [mailto:loreen@phoenixlabs.com]
Sent: Wednesday, January 30, 2013 8:54 AM
To: Anthony J. Trani
Cc: 'Bobbi - Phoenixlabs'
Subject: RE: December samples



Friday, August 23, 2013

Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Project ID: COMMERCIAL FOUNDRY DUPS
Sample ID#s: BD25079 - BD25087

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

August 23, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/24/12 9:45
01/30/13 11:00

Laboratory Data

SDG ID: GBD25079
Phoenix ID: BD25079

Project ID: COMMERCIAL FOUNDRY DUPS
Client ID: A-14-S-4 (D)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	83		%	01/30/13	JL	E160.3
Extraction for PCB	Completed			01/30/13	BB/A	SW3540C

PCB (Soxhlet)

PCB-1016	ND	40	mg/kg	02/01/13	AW	3540C/8082
PCB-1221	ND	40	mg/kg	02/01/13	AW	3540C/8082
PCB-1232	ND	40	mg/kg	02/01/13	AW	3540C/8082
PCB-1242	ND	40	mg/kg	02/01/13	AW	3540C/8082
PCB-1248	490	40	mg/kg	02/01/13	AW	3540C/8082
PCB-1254	ND	40	mg/kg	02/01/13	AW	3540C/8082
PCB-1260	ND	40	mg/kg	02/01/13	AW	3540C/8082
PCB-1262	ND	40	mg/kg	02/01/13	AW	3540C/8082
PCB-1268	ND	40	mg/kg	02/01/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out	%	02/01/13	AW	30 - 150 %
% TCMX	Diluted Out	%	02/01/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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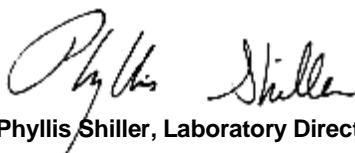
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

August 23, 2013

Reviewed and Released by: Loreen Fay, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

August 23, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/24/12 12:20
01/30/13 11:00

Laboratory Data

SDG ID: GBD25079
Phoenix ID: BD25080

Project ID: COMMERCIAL FOUNDRY DUPS
Client ID: A-14-S-13 (D)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	82		%	01/30/13	JL	E160.3
Extraction for PCB	Completed			01/30/13	BB/A	SW3540C

PCB (Soxhlet)

PCB-1016	ND	200	mg/kg	02/01/13	AW	3540C/8082
PCB-1221	ND	200	mg/kg	02/01/13	AW	3540C/8082
PCB-1232	ND	200	mg/kg	02/01/13	AW	3540C/8082
PCB-1242	ND	200	mg/kg	02/01/13	AW	3540C/8082
PCB-1248	570	200	mg/kg	02/01/13	AW	3540C/8082
PCB-1254	ND	200	mg/kg	02/01/13	AW	3540C/8082
PCB-1260	ND	200	mg/kg	02/01/13	AW	3540C/8082
PCB-1262	ND	200	mg/kg	02/01/13	AW	3540C/8082
PCB-1268	ND	200	mg/kg	02/01/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out	%	02/01/13	AW	30 - 150 %
% TCMX	Diluted Out	%	02/01/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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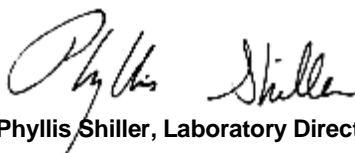
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

August 23, 2013

Reviewed and Released by: Loreen Fay, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

August 23, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

12/24/12
01/30/13

Time

9:25
11:00

Laboratory Data

SDG ID: GBD25079
Phoenix ID: BD25081

Project ID: COMMERCIAL FOUNDRY DUPS
Client ID: Orangeburg Pipes (D)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	44		%	01/30/13	JL	E160.3
Extraction for PCB	Completed			01/30/13	BB/A	SW3540C

PCB (Soxhlet)

PCB-1016	ND	470	mg/kg	02/04/13	AW	3540C/8082
PCB-1221	ND	470	mg/kg	02/04/13	AW	3540C/8082
PCB-1232	ND	470	mg/kg	02/04/13	AW	3540C/8082
PCB-1242	ND	470	mg/kg	02/04/13	AW	3540C/8082
PCB-1248	1300	470	mg/kg	02/04/13	AW	3540C/8082
PCB-1254	ND	470	mg/kg	02/04/13	AW	3540C/8082
PCB-1260	ND	470	mg/kg	02/04/13	AW	3540C/8082
PCB-1262	ND	470	mg/kg	02/04/13	AW	3540C/8082
PCB-1268	ND	470	mg/kg	02/04/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out	%	02/04/13	AW	30 - 150 %
% TCMX	Diluted Out	%	02/04/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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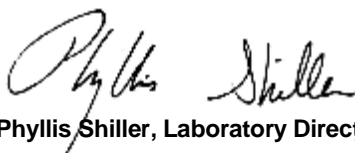
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

August 23, 2013

Reviewed and Released by: Loreen Fay, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

August 23, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/26/12 12:25
01/30/13 11:00

Laboratory Data

SDG ID: GBD25079
Phoenix ID: BD25082

Project ID: COMMERCIAL FOUNDRY DUPS
Client ID: A-14-F-5(0-0.5)D

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	97		%	01/30/13	JL	E160.3
Extraction for PCB	Completed			01/30/13	BB/A	SW3540C

PCB (Soxhlet)

PCB-1016	ND	3.4	mg/kg	02/01/13	AW	3540C/8082
PCB-1221	ND	3.4	mg/kg	02/01/13	AW	3540C/8082
PCB-1232	ND	3.4	mg/kg	02/01/13	AW	3540C/8082
PCB-1242	ND	3.4	mg/kg	02/01/13	AW	3540C/8082
PCB-1248	22	3.4	mg/kg	02/01/13	AW	3540C/8082
PCB-1254	ND	3.4	mg/kg	02/01/13	AW	3540C/8082
PCB-1260	ND	3.4	mg/kg	02/01/13	AW	3540C/8082
PCB-1262	ND	3.4	mg/kg	02/01/13	AW	3540C/8082
PCB-1268	ND	3.4	mg/kg	02/01/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out	%	02/01/13	AW	30 - 150 %
% TCMX	Diluted Out	%	02/01/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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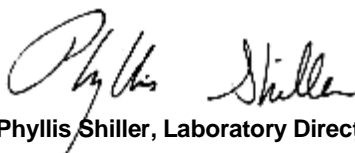
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

August 23, 2013

Reviewed and Released by: Loreen Fay, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

August 23, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/26/12 14:25
01/30/13 11:00

Laboratory Data

SDG ID: GBD25079
Phoenix ID: BD25083

Project ID: COMMERCIAL FOUNDRY DUPS
Client ID: A-4-F-1(D)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	98		%	01/30/13	JL	E160.3
Extraction for PCB	Completed			01/30/13	BB/A	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.33	mg/kg	02/01/13	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	02/01/13	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	02/01/13	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	02/01/13	AW	3540C/8082
PCB-1248	*	0.33	mg/kg	02/01/13	AW	3540C/8082
PCB-1254	*	0.33	mg/kg	02/01/13	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	02/01/13	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	02/01/13	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	02/01/13	AW	3540C/8082
Total PCBs	4	0.33	mg/kg	02/01/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	85	%	02/01/13	AW	30 - 150 %
% TCMX	99	%	02/01/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

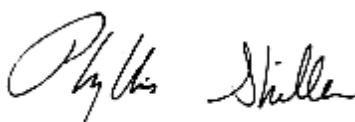
Comments:

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254.

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Phyllis Shiller, Laboratory Director

August 23, 2013

Reviewed and Released by: Loreen Fay, Project Manager



Environmental Laboratories, Inc.

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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

August 23, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/26/12 16:10
01/30/13 11:00

Laboratory Data

SDG ID: GBD25079
Phoenix ID: BD25084

Project ID: COMMERCIAL FOUNDRY DUPS
Client ID: A-10-F-15(0-0.5)D

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	99		%	01/30/13	JL	E160.3
Extraction for PCB	Completed			01/30/13	BB/A	SW3540C

PCB (Soxhlet)

PCB-1016	ND	1.6	mg/kg	02/01/13	AW	3540C/8082
PCB-1221	ND	1.6	mg/kg	02/01/13	AW	3540C/8082
PCB-1232	ND	1.6	mg/kg	02/01/13	AW	3540C/8082
PCB-1242	ND	1.6	mg/kg	02/01/13	AW	3540C/8082
PCB-1248	4	1.6	mg/kg	02/01/13	AW	3540C/8082
PCB-1254	ND	1.6	mg/kg	02/01/13	AW	3540C/8082
PCB-1260	ND	1.6	mg/kg	02/01/13	AW	3540C/8082
PCB-1262	ND	1.6	mg/kg	02/01/13	AW	3540C/8082
PCB-1268	ND	1.6	mg/kg	02/01/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out	%	02/01/13	AW	30 - 150 %
% TCMX	Diluted Out	%	02/01/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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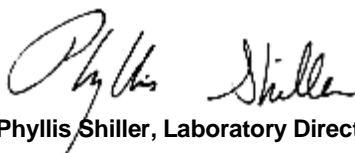
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

August 23, 2013

Reviewed and Released by: Loreen Fay, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

August 23, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

12/27/12
01/30/13

Time

11:00
11:00

Laboratory Data

SDG ID: GBD25079
Phoenix ID: BD25085

Project ID: COMMERCIAL FOUNDRY DUPS
Client ID: A-5-F-5(0-0.5)D

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	99		%	01/30/13	JL	E160.3
Extraction for PCB	Completed			01/30/13	BB/A	SW3540C

PCB (Soxhlet)

PCB-1016	ND	1.6	mg/kg	02/01/13	AW	3540C/8082
PCB-1221	ND	1.6	mg/kg	02/01/13	AW	3540C/8082
PCB-1232	ND	1.6	mg/kg	02/01/13	AW	3540C/8082
PCB-1242	ND	1.6	mg/kg	02/01/13	AW	3540C/8082
PCB-1248	4.9	1.6	mg/kg	02/01/13	AW	3540C/8082
PCB-1254	ND	1.6	mg/kg	02/01/13	AW	3540C/8082
PCB-1260	ND	1.6	mg/kg	02/01/13	AW	3540C/8082
PCB-1262	ND	1.6	mg/kg	02/01/13	AW	3540C/8082
PCB-1268	ND	1.6	mg/kg	02/01/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out	%	02/01/13	AW	30 - 150 %
% TCMX	Diluted Out	%	02/01/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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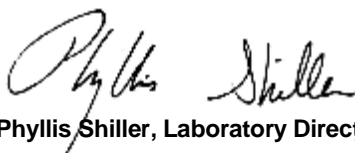
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

August 23, 2013

Reviewed and Released by: Loreen Fay, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

August 23, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/27/12 12:45
01/30/13 11:00

Laboratory Data

SDG ID: GBD25079
Phoenix ID: BD25086

Project ID: COMMERCIAL FOUNDRY DUPS
Client ID: A10-PW-4(D)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	01/31/13	LB	E160.3
Extraction for PCB	Completed			01/30/13	BB/A	SW3540C

PCB (Soxhlet)

PCB-1016	ND	8	mg/kg	02/04/13	AW	3540C/8082
PCB-1221	ND	8	mg/kg	02/04/13	AW	3540C/8082
PCB-1232	ND	8	mg/kg	02/04/13	AW	3540C/8082
PCB-1242	ND	8	mg/kg	02/04/13	AW	3540C/8082
PCB-1248	*	8	mg/kg	02/04/13	AW	3540C/8082
PCB-1254	*	8	mg/kg	02/04/13	AW	3540C/8082
PCB-1260	ND	8	mg/kg	02/04/13	AW	3540C/8082
PCB-1262	ND	8	mg/kg	02/04/13	AW	3540C/8082
PCB-1268	ND	8	mg/kg	02/04/13	AW	3540C/8082
Total PCBs	53	8	mg/kg	02/04/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out	%	02/04/13	AW	30 - 150 %
% TCMX	Diluted Out	%	02/04/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

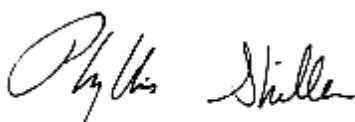
Comments:

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254.

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Phyllis Shiller, Laboratory Director

August 23, 2013

Reviewed and Released by: Loreen Fay, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

August 23, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

12/27/12 8:10
01/30/13 11:00

Laboratory Data

SDG ID: GBD25079
Phoenix ID: BD25087

Project ID: COMMERCIAL FOUNDRY DUPS
Client ID: A10-PW-7(D)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	01/31/13	LB	E160.3
Extraction for PCB	Completed			01/30/13	BB/A	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.82	mg/kg	02/01/13	AW	3540C/8082
PCB-1221	ND	0.82	mg/kg	02/01/13	AW	3540C/8082
PCB-1232	ND	0.82	mg/kg	02/01/13	AW	3540C/8082
PCB-1242	ND	0.82	mg/kg	02/01/13	AW	3540C/8082
PCB-1248	1.3	0.82	mg/kg	02/01/13	AW	3540C/8082
PCB-1254	ND	0.82	mg/kg	02/01/13	AW	3540C/8082
PCB-1260	ND	0.82	mg/kg	02/01/13	AW	3540C/8082
PCB-1262	ND	0.82	mg/kg	02/01/13	AW	3540C/8082
PCB-1268	ND	0.82	mg/kg	02/01/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	82	%	02/01/13	AW	30 - 150 %
% TCMX	86	%	02/01/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

August 23, 2013

Reviewed and Released by: Loreen Fay, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

August 23, 2013

QA/QC Data

SDG I.D.: GBD25079

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 219963, QC Sample No: BD25080 (BD25079, BD25080, BD25081, BD25082, BD25083, BD25084, BD25085, BD25086, BD25087)									
<u>Polychlorinated Biphenyls - Solid</u>									
PCB-1016	ND	79	76	3.9				40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	69	67	2.9				40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	74	76	71	6.8				30 - 150	30
% TCMX (Surrogate Rec)	78	82	77	6.3				30 - 150	30

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis Shiller, Laboratory Director
August 23, 2013

Friday, August 23, 2013

Requested Criteria: None

State: CT

Sample Criteria Exceedences Report

GBD25079 - GZA-PCB

Page 1 of 1

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** GZA-PCB
Project Location: COMMERCIAL FOUNDRY DUP **Project Number:**
Laboratory Sample ID(s): BD25079, BD25080, BD25081, BD25082, BD25083, BD25084, BD25085, BD25086, BD25087

Sampling Date(s): 12/24/2012, 12/26/2012, 12/27/2012

RCP Methods Used:

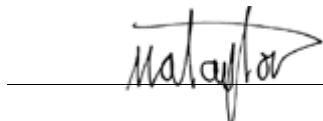
☐ 1311/1312 ☐ 6010 ☐ 7000 ☐ 7196 ☐ 7470/7471 ☐ 8081 ☐ EPH ☐ TO15
☒ 8082 ☐ 8151 ☐ 8260 ☐ 8270 ☐ ETPH ☐ 9010/9012 ☐ VPH

1.	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1a.	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1b.	EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2.	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4.	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5a.	Were reporting limits specified or referenced on the chain-of-custody?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5b.	Were these reporting limits met?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
6.	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA

Note: For all questions to which the response was "No" (with the exception of question #5a, #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized
Signature:



Date: Friday, August 23, 2013
 Printed Name: Maryam Taylor
 Position: Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

August 23, 2013

SDG ID.: GBD25079

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Au-ecd1 02/01/13-1 (BD25079, BD25080, BD25082, BD25083, BD25084, BD25085, BD25087)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 2/1/2013

Instrument: Au-ecd24 02/04/13-1 (BD25081, BD25086)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 2/4/2013

QC (Site Specific)

----- Sample No: BD25080, QA/QC Batch: 219963 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

Loreen - Phoenixlabs

From: Anthony J. Trani [Anthony.Trani@gza.com]
Sent: Wednesday, January 30, 2013 9:59 AM
To: Loreen - Phoenixlabs
Subject: RE: December samples

Okay, lets have the dups for PCBs run on the following samples:

Soil Samples: 51 Samples; need 3 QA/QC

- ✓ BD12628 - A-14-S-4 = 420 mg/kg
- ✓ BD12637 - A-14-S-3 = 710 mg/kg
- ✓ BD12638 - Orangeburg Pipe = 6,100 mg/kg

Concrete Floor Samples: 76 Samples; need 4 QA/QC

- ✓ BD13694 - A-14-F-5 (0-0.5) = 20 mg/kg
- ✓ BD12969 - A-4-F-1 = 3.9 mg/kg
- ✓ BD12997 - A-10-F-15 (0-0.5) = 4.4 mg/kg
- ✓ BD12980 - A-5-F-5 (0-0.5) = 9.6 mg/kg

Ceiling Samples: 15 Samples; need 1 QA/QC

No samples available

Paint/Wall Samples: 24 Samples; need 2 QA/QC

- ✓ BD13683 - A10-PW-4 = 52 mg/kg
- ✓ BD13686 - A10-PW-7 = 1.2 mg/kg

Thanks
Anthony

From: Loreen - Phoenixlabs [mailto:loreen@phoenixlabs.com]
Sent: Wednesday, January 30, 2013 9:36 AM
To: Anthony J. Trani
Subject: RE: December samples

I have 13683, 13870, 13686...will any of these work? Loreen

From: Anthony J. Trani [mailto:Anthony.Trani@gza.com]
Sent: Wednesday, January 30, 2013 9:26 AM
To: Loreen - Phoenixlabs
Subject: RE: December samples

Loreen,

The PW samples are paint chip samples. Do you have any samples with a PW in them that we can resample?

From: Loreen - Phoenixlabs [mailto:loreen@phoenixlabs.com]
Sent: Wednesday, January 30, 2013 8:54 AM
To: Anthony J. Trani
Cc: 'Bobbi - Phoenixlabs'
Subject: RE: December samples



Environmental Laboratories, Inc.

587 East Middle Turnpike, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

CHAIN OF CUSTODY RECORD

Unref. 100% 100%
Coolant: IPK ☐ ICE ☐ N ☐
Temp °C Pg of
Data Delivery:
☐ Fax #:
☐ Email: James.Hutton@q2c.com

Customer: G7A
Address: 655 Windsor Brook Dr
Guathtubury, CT 06433

Project: Commercial Foundation Bore
Report to: Jim Hutton
Invoice to: G7A

Project P.O. #
Phone #
Fax #

Client Sample - Information - Identification

Sample's Signature: _____ Date: _____

Matrix Code:
DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
SE=Sediment SL=Sludge S=Soil/Solid W=Wipe O=Other

A
B
C
D
E
F
G
H
I

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Analysis Request	Soil VOA Vials () methanol () H ₂ O GL Soil container () or GL Soil container () or 40 ml VOA Vial () As is () HCl GL Amber 1000ml () As is () H ₂ SO ₄ PL As is () 250ml () 500ml () 1000ml PL H ₂ SO ₄ () 250ml () 500ml PL HNO ₃ 250ml PL NaOH 250ml Bacteria Bottle
35079	A-14-S-4 (D)		12/24	9:45	X	
35080	A-14-S-13 (D)		12/20	12:20	X	
35081	(Angelburg Road)		4/25	4:25	X	
35082	A-14-S-16 (D)		12/26	12:25	X	
35083	A-4-E-1 (D)		14/25	14:25	X	
35084	A-10-F-15 (D)		16/10	16:10	X	
35085	A-5-F-5 (D)		12/27	11:00	X	
35086	AIC-PW-4 (D)		12/45	12:45	X	
35087	AIC-PW-7 (D)		8/10	8:10	X	

Relinquished by: _____ Accepted by: _____ Date: _____ Time: _____

Jim Hutton 130.13

Comments: Special Requirements or Regulations:

A=12628 E=12969 I=13686
B=12637 F=12997
C=12638 G=12980
D=13694 H=13683

Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☐ Standard
☐ Other
SURCHARGE APPLIES

RI ☐ Direct Exposure (Residential)
GW ☐
Other ☐
CT ☒ RCP Cert
☐ GW Protection
☐ SW Protection
☐ GA Mobility
☐ GB Mobility
☐ Residential DEC
☐ IIC DEC
Other ☐
MA ☐ MCP Certification
☐ GW-1
☐ GW-2
☐ GW-3
S-1
S-2
S-3
MWRA eSMART
Other ☐

Data Format
☒ Excel
☐ PDF
☐ GIS/Key
☐ EQUIS
Data Package
☐ Tier II Checklist
☐ Full Data Package*
☐ Phoenix Std Report
Other ☐
SURCHARGE APPLIES

A corrected ID 8/23/13



Wednesday, July 03, 2013

Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Project ID: COMMERCIAL FOUNDRY
Sample ID#s: BD99309

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 03, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: 24 Hour
P.O.#: 43369.83

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

07/01/13 9:30
07/01/13 11:22

Laboratory Data

SDG ID: GBD99309
Phoenix ID: BD99309

Project ID: COMMERCIAL FOUNDRY
Client ID: ORANGE-1

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	88		%	07/01/13	JL	E160.3
Extraction for PCB	Completed			07/01/13	PP/HB	SW3540C

PCB (Soxhlet)

PCB-1016	ND	2100	mg/kg	07/02/13	AW	3540C/8082
PCB-1221	ND	2100	mg/kg	07/02/13	AW	3540C/8082
PCB-1232	ND	2100	mg/kg	07/02/13	AW	3540C/8082
PCB-1242	ND	2100	mg/kg	07/02/13	AW	3540C/8082
PCB-1248	23000	2100	mg/kg	07/02/13	AW	3540C/8082
PCB-1254	ND	2100	mg/kg	07/02/13	AW	3540C/8082
PCB-1260	ND	2100	mg/kg	07/02/13	AW	3540C/8082
PCB-1262	ND	2100	mg/kg	07/02/13	AW	3540C/8082
PCB-1268	ND	2100	mg/kg	07/02/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out	%	07/02/13	AW	30 - 150 %
% TCMX	Diluted Out	%	07/02/13	AW	30 - 150 %

Project ID: COMMERCIAL FOUNDRY
Client ID: ORANGE-1

Phoenix I.D.: BD99309

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
-----------	--------	------------	-------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

July 03, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

July 03, 2013

QA/QC Data

SDG I.D.: GBD99309

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 238220, QC Sample No: BD98923 (BD99309)									
Polychlorinated Biphenyls - Solid									
PCB-1016	ND	91	93	2.2	110	106	3.7	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	91	93	2.2	98	98	0.0	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	86	89	93	4.4	131	133	1.5	30 - 150	30
% TCMX (Surrogate Rec)	86	89	91	2.2	99	101	2.0	30 - 150	30

Comment:

BD99276 WS BROUHT TO 10ML INSTEAD OF 5ML

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis Shiller, Laboratory Director
July 03, 2013

Sample Criteria Exceedences Report

Requested Criteria: GAM, RC

GBD99309 - GZA-PCB

State: CT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BD99309	\$PCB_SOXR	PCB-1016	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2100000	1000	1000	ug/Kg
BD99309	\$PCB_SOXR	PCB-1221	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2100000	1000	1000	ug/Kg
BD99309	\$PCB_SOXR	PCB-1232	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2100000	1000	1000	ug/Kg
BD99309	\$PCB_SOXR	PCB-1242	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2100000	1000	1000	ug/Kg
BD99309	\$PCB_SOXR	PCB-1248	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	23000000	2100000	1000	1000	ug/Kg
BD99309	\$PCB_SOXR	PCB-1254	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2100000	1000	1000	ug/Kg
BD99309	\$PCB_SOXR	PCB-1260	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2100000	1000	1000	ug/Kg
BD99309	\$PCB_SOXR	PCB-1262	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2100000	1000	1000	ug/Kg
BD99309	\$PCB_SOXR	PCB-1268	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2100000	1000	1000	ug/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** GZA-PCB

Project Location: COMMERCIAL FOUNDRY **Project Number:**

Laboratory Sample ID(s): BD99309

Sampling Date(s): 7/1/2013

RCP Methods Used:

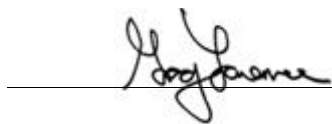
☐ 1311/1312 ☐ 6010 ☐ 7000 ☐ 7196 ☐ 7470/7471 ☐ 8081 ☐ EPH ☐ TO15
☒ 8082 ☐ 8151 ☐ 8260 ☐ 8270 ☐ ETPH ☐ 9010/9012 ☐ VPH

1.	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1a.	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1b.	EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2.	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
4.	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5a.	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5b.	Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
6.	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA

Note: For all questions to which the response was "No" (with the exception of question #5a, #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized
Signature: _____



Date: Wednesday, July 03, 2013
 Printed Name: Greg Lawrence
 Position: Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

July 03, 2013

SDG I.D.: GBD99309

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Au-ecd7 07/02/13-1 (BD99309)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner

Position: Chemist

Date: 7/2/2013

QC Comments: QC Batch 238220 07/01/13 (BD99309)

BD99276 WS BROUGHT TO 10ML INSTEAD OF 5ML

QC (Batch Specific)

----- Sample No: BD98923, QA/QC Batch: 238220 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Temperature Narration

The samples in this delivery group were received at 24°C.

(Note acceptance criteria is above freezing up to 6°C)



CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Cooler: Yes ☐ No ☒
Coolant: IPK ☐ ICE ☐

Temp 24 °C Pg of

Contact Options:

Fax: ☐
Phone: 860-858-3135
Email: jessie.hutton@psa.com

Project P.O.: 43369.83

This section MUST be completed with Bottle Quantities.

Customer: G2A Geoterminal Inc.
Address: 655 Wyndmire Dr.
Glastonbury, CT

Project: Commercial Forestry
Report to: Jim Hutton
Invoice to: same

Client Sample - Information - Identification

Sampler's Signature _____ Date: _____

Matrix Code:
DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe
OIL=Oil B=Bulk L=Liquid

PHOENIX USE ONLY
SAMPLE #

Orange-1 Orange-1

Customer Sample Identification

Sample Matrix

Date Sampled

7-13-09

Time Sampled

0930

Analysis Request

TCBs - Manual Skipped

Soil VOA Vals [methanol] 100ml

GI Soil container () 100ml

GI Soil container () 100ml

GI Amber 1000ml [As le.] [H2SO4]

PL As le. [250ml] [250ml] [500ml] [1000ml]

PL HNO3 250ml

PL NaOH 250ml

Bacteria Bottle

Relinquished by:

Accepted by:

Time:

Date:

Direct Exposure (Residential)

GW

Other

RCP Cert

GW Protection

SW Protection

GA Mobility

GB Mobility

Residential DEC

I/C DEC

Other

MCP Certification

GW-1

GW-2

GW-3

S-1

S-2

S-3

MWRA eSMART

Other

Excel

PDF

GIS/Key

EQUS

Other

Tier II Checklist

Full Data Package*

Phoenix Std Report

Other

* SURCHARGE APPLIES

Comments, Special Requirements or Regulations:

Detection limit 0.5 ppm

Turnaround:

1 Day*

2 Days*

3 Days*

Standard

Other

* SURCHARGE APPLIES

State where samples were collected: CT

* SURCHARGE APPLIES



Monday, July 15, 2013

Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Project ID: COMMERCIAL FOUNDRY COMPANIES

Sample ID#s: BD99551 - BD99553, BD99556 - BD99558, BD99560, BD99562,
BD99565 - BD99567, BD99569 - BD99570, BD99574

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 15, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 4336983

Custody Information

Collected by: AT
Received by: LB
Analyzed by: see "By" below

<u>Date</u>	<u>Time</u>
06/30/13	10:00
07/01/13	16:15

Laboratory Data

SDG ID: GBD99551
Phoenix ID: BD99551

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: A-14-F-12 (0-0.5)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	95		%	07/10/13	JL	E160.3
Extraction for PCB	Completed			07/10/13	PP/K	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.34	mg/kg	07/11/13	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	07/11/13	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	07/11/13	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	07/11/13	AW	3540C/8082
PCB-1248	2.3	0.34	mg/kg	07/11/13	AW	3540C/8082
PCB-1254	ND	0.34	mg/kg	07/11/13	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	07/11/13	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	07/11/13	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	07/11/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	94	%	07/11/13	AW	30 - 150 %
% TCMX	88	%	07/11/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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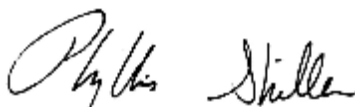
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

July 15, 2013

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 15, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 4336983

Custody Information

Collected by: AT
Received by: LB
Analyzed by: see "By" below

Date Time

06/30/13 12:10
07/01/13 16:15

Laboratory Data

SDG ID: GBD99551
Phoenix ID: BD99552

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: A-14-F-13 (0-0.5)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	95		%	07/10/13	JL	E160.3
Extraction for PCB	Completed			07/10/13	PP/K	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.34	mg/kg	07/11/13	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	07/11/13	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	07/11/13	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	07/11/13	AW	3540C/8082
PCB-1248	ND	0.34	mg/kg	07/11/13	AW	3540C/8082
PCB-1254	ND	0.34	mg/kg	07/11/13	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	07/11/13	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	07/11/13	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	07/11/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	70	%	07/11/13	AW	30 - 150 %
% TCMX	86	%	07/11/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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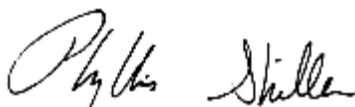
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

July 15, 2013

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 15, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 4336983

Custody Information

Collected by: AT
Received by: LB
Analyzed by: see "By" below

Date Time

06/30/13 12:20
07/01/13 16:15

Laboratory Data

SDG ID: GBD99551
Phoenix ID: BD99553

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: A-14-F-14 (0-0.5)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	98		%	07/10/13	JL	E160.3
Extraction for PCB	Completed			07/10/13	PP/K	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.33	mg/kg	07/11/13	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	07/11/13	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	07/11/13	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	07/11/13	AW	3540C/8082
PCB-1248	ND	0.33	mg/kg	07/11/13	AW	3540C/8082
PCB-1254	ND	0.33	mg/kg	07/11/13	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	07/11/13	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	07/11/13	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	07/11/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	69	%	07/11/13	AW	30 - 150 %
% TCMX	86	%	07/11/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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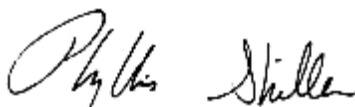
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

July 15, 2013

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 15, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 4336983

Custody Information

Collected by: AT
Received by: LB
Analyzed by: see "By" below

<u>Date</u>	<u>Time</u>
06/30/13	10:15
07/01/13	16:15

Laboratory Data

SDG ID: GBD99551
Phoenix ID: BD99556

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: A-14-F-17 (0-0.5)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	98		%	07/01/13	JL	E160.3
Extraction for PCB	Completed			07/01/13	PP/K	SW3540C

PCB (Soxhlet)

PCB-1016	ND	3.3	mg/kg	07/08/13	AW	3540C/8082
PCB-1221	ND	3.3	mg/kg	07/08/13	AW	3540C/8082
PCB-1232	ND	3.3	mg/kg	07/08/13	AW	3540C/8082
PCB-1242	ND	3.3	mg/kg	07/08/13	AW	3540C/8082
PCB-1248	15	3.3	mg/kg	07/08/13	AW	3540C/8082
PCB-1254	ND	3.3	mg/kg	07/08/13	AW	3540C/8082
PCB-1260	ND	3.3	mg/kg	07/08/13	AW	3540C/8082
PCB-1262	ND	3.3	mg/kg	07/08/13	AW	3540C/8082
PCB-1268	ND	3.3	mg/kg	07/08/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out	%	07/08/13	AW	30 - 150 %
% TCMX	Diluted Out	%	07/08/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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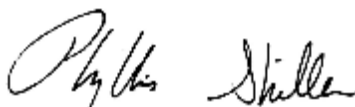
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

July 15, 2013

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 15, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 4336983

Custody Information

Collected by: AT
Received by: LB
Analyzed by: see "By" below

Date Time

06/30/13 10:20
07/01/13 16:15

Laboratory Data

SDG ID: GBD99551
Phoenix ID: BD99557

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: A-14-F-18 (0-0.5)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	98		%	07/01/13	JL	E160.3
Extraction for PCB	Completed			07/01/13	PP/K	SW3540C

PCB (Soxhlet)

PCB-1016	ND	17	mg/kg	07/03/13	AW	3540C/8082
PCB-1221	ND	17	mg/kg	07/03/13	AW	3540C/8082
PCB-1232	ND	17	mg/kg	07/03/13	AW	3540C/8082
PCB-1242	ND	17	mg/kg	07/03/13	AW	3540C/8082
PCB-1248	110	17	mg/kg	07/03/13	AW	3540C/8082
PCB-1254	ND	17	mg/kg	07/03/13	AW	3540C/8082
PCB-1260	ND	17	mg/kg	07/03/13	AW	3540C/8082
PCB-1262	ND	17	mg/kg	07/03/13	AW	3540C/8082
PCB-1268	ND	17	mg/kg	07/03/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out	%	07/03/13	AW	30 - 150 %
% TCMX	Diluted Out	%	07/03/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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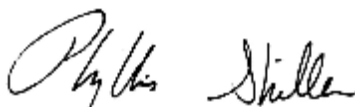
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

July 15, 2013

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 15, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 4336983

Custody Information

Collected by: AT
Received by: LB
Analyzed by: see "By" below

Date Time

06/30/13 12:25
07/01/13 16:15

Laboratory Data

SDG ID: GBD99551
Phoenix ID: BD99558

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: A-14-F-19 (0-0.5)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	97		%	07/10/13	JL	E160.3
Extraction for PCB	Completed			07/10/13	PP/K	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.34	mg/kg	07/11/13	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	07/11/13	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	07/11/13	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	07/11/13	AW	3540C/8082
PCB-1248	ND	0.34	mg/kg	07/11/13	AW	3540C/8082
PCB-1254	ND	0.34	mg/kg	07/11/13	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	07/11/13	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	07/11/13	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	07/11/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	68	%	07/11/13	AW	30 - 150 %
% TCMX	83	%	07/11/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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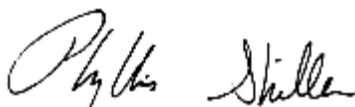
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

July 15, 2013

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 15, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 4336983

Custody Information

Collected by: AT
Received by: LB
Analyzed by: see "By" below

Date Time

06/30/13 12:50
07/01/13 16:15

Laboratory Data

SDG ID: GBD99551
Phoenix ID: BD99560

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: A-14-F-21 (0-0.5)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	97		%	07/01/13	JL	E160.3
Extraction for PCB	Completed			07/02/13	PP/HB	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.33	mg/kg	07/05/13	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	07/05/13	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	07/05/13	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	07/05/13	AW	3540C/8082
PCB-1248	0.5	0.33	mg/kg	07/05/13	AW	3540C/8082
PCB-1254	ND	0.33	mg/kg	07/05/13	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	07/05/13	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	07/05/13	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	07/05/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	92	%	07/05/13	AW	30 - 150 %
% TCMX	86	%	07/05/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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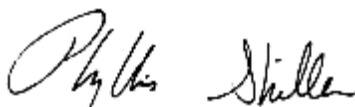
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

July 15, 2013

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 15, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 4336983

Custody Information

Collected by: AT
Received by: LB
Analyzed by: see "By" below

Date Time

06/30/13 11:05
07/01/13 16:15

Laboratory Data

SDG ID: GBD99551
Phoenix ID: BD99562

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: A-14-F-23 (0-0.5)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	98		%	07/01/13	JL	E160.3
Extraction for PCB	Completed			07/01/13	PP/K	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.34	mg/kg	07/02/13	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	07/02/13	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	07/02/13	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	07/02/13	AW	3540C/8082
PCB-1248	ND	0.34	mg/kg	07/02/13	AW	3540C/8082
PCB-1254	ND	0.34	mg/kg	07/02/13	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	07/02/13	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	07/02/13	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	07/02/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	108	%	07/02/13	AW	30 - 150 %
% TCMX	84	%	07/02/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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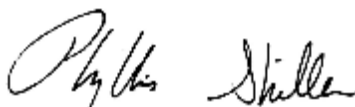
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

July 15, 2013

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 15, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 4336983

Custody Information

Collected by: AT
Received by: LB
Analyzed by: see "By" below

Date

06/30/13
07/01/13

Time

11:20
16:15

Laboratory Data

SDG ID: GBD99551
Phoenix ID: BD99565

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: A-14-F-26 (0-0.5)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	98		%	07/01/13	JL	E160.3
Extraction for PCB	Completed			07/01/13	/K	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.34	mg/kg	07/02/13	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	07/02/13	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	07/02/13	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	07/02/13	AW	3540C/8082
PCB-1248	ND	0.34	mg/kg	07/02/13	AW	3540C/8082
PCB-1254	ND	0.34	mg/kg	07/02/13	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	07/02/13	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	07/02/13	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	07/02/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	97	%	07/02/13	AW	30 - 150 %
% TCMX	79	%	07/02/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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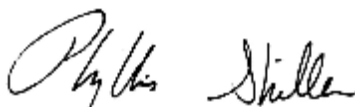
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

July 15, 2013

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 15, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 4336983

Custody Information

Collected by: AT
Received by: LB
Analyzed by: see "By" below

Date

06/30/13
07/01/13

Time

10:35
16:15

Laboratory Data

SDG ID: GBD99551
Phoenix ID: BD99566

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: A-14-F-27 (0-0.5)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	98		%	07/01/13	JL	E160.3
Extraction for PCB	Completed			07/01/13	/K	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.34	mg/kg	07/03/13	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	07/03/13	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	07/03/13	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	07/03/13	AW	3540C/8082
PCB-1248	0.34	0.34	mg/kg	07/03/13	AW	3540C/8082
PCB-1254	ND	0.34	mg/kg	07/03/13	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	07/03/13	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	07/03/13	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	07/03/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	96	%	07/03/13	AW	30 - 150 %
% TCMX	91	%	07/03/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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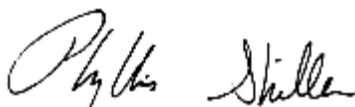
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

July 15, 2013

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 15, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 4336983

Custody Information

Collected by: AT
Received by: LB
Analyzed by: see "By" below

Date

06/30/13
07/01/13

Time

10:40
16:15

Laboratory Data

SDG ID: GBD99551
Phoenix ID: BD99567

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: A-14-F-28 (0-0.5)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	98		%	07/01/13	JL	E160.3
Extraction for PCB	Completed			07/01/13	PP/K	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.34	mg/kg	07/03/13	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	07/03/13	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	07/03/13	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	07/03/13	AW	3540C/8082
PCB-1248	0.57	0.34	mg/kg	07/03/13	AW	3540C/8082
PCB-1254	ND	0.34	mg/kg	07/03/13	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	07/03/13	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	07/03/13	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	07/03/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	98	%	07/03/13	AW	30 - 150 %
% TCMX	82	%	07/03/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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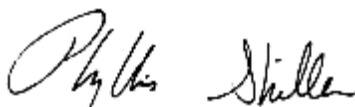
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

July 15, 2013

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 15, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 4336983

Custody Information

Collected by: AT
Received by: LB
Analyzed by: see "By" below

<u>Date</u>	<u>Time</u>
06/30/13	12:05
07/01/13	16:15

Laboratory Data

SDG ID: GBD99551
Phoenix ID: BD99569

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: A-14-F-30 (0-0.5)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	97		%	07/10/13	JL	E160.3
Extraction for PCB	Completed			07/10/13	PP/K	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.34	mg/kg	07/11/13	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	07/11/13	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	07/11/13	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	07/11/13	AW	3540C/8082
PCB-1248	ND	0.34	mg/kg	07/11/13	AW	3540C/8082
PCB-1254	ND	0.34	mg/kg	07/11/13	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	07/11/13	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	07/11/13	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	07/11/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	69	%	07/11/13	AW	30 - 150 %
% TCMX	84	%	07/11/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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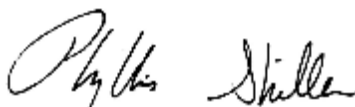
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

July 15, 2013

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 15, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 4336983

Custody Information

Collected by: AT
Received by: LB
Analyzed by: see "By" below

Date Time

06/30/13 11:35
07/01/13 16:15

Laboratory Data

SDG ID: GBD99551
Phoenix ID: BD99570

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: A-14-F-31 (0-0.5)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	97		%	07/01/13	JL	E160.3
Extraction for PCB	Completed			07/02/13	PP/HB	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.34	mg/kg	07/05/13	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	07/05/13	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	07/05/13	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	07/05/13	AW	3540C/8082
PCB-1248	0.44	0.34	mg/kg	07/05/13	AW	3540C/8082
PCB-1254	ND	0.34	mg/kg	07/05/13	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	07/05/13	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	07/05/13	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	07/05/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	98	%	07/05/13	AW	30 - 150 %
% TCMX	92	%	07/05/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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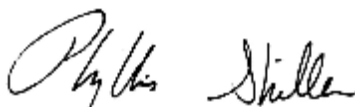
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

July 15, 2013

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 15, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 4336983

Custody Information

Collected by: AT
Received by: LB
Analyzed by: see "By" below

<u>Date</u>	<u>Time</u>
06/30/13	12:10
07/01/13	16:15

Laboratory Data

SDG ID: GBD99551
Phoenix ID: BD99574

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: A-14-F-35 (0-0.5)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	96		%	07/10/13	JL	E160.3
Extraction for PCB	Completed			07/10/13	PP/K	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.34	mg/kg	07/11/13	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	07/11/13	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	07/11/13	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	07/11/13	AW	3540C/8082
PCB-1248	1.7	0.34	mg/kg	07/11/13	AW	3540C/8082
PCB-1254	ND	0.34	mg/kg	07/11/13	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	07/11/13	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	07/11/13	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	07/11/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	97	%	07/11/13	AW	30 - 150 %
% TCMX	102	%	07/11/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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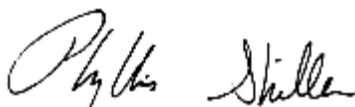
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

July 15, 2013

Reviewed and Released by: Rashmi Makol, Project Manager



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587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

July 15, 2013

QA/QC Data

SDG I.D.: GBD99551

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 238273, QC Sample No: BD98924 (BD99556, BD99557, BD99562, BD99565, BD99566)									
<u>Polychlorinated Biphenyls - Solid</u>									
PCB-1016	ND	90	91	1.1				40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	88	88	0.0				40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	85	85	86	1.2				30 - 150	30
% TCMX (Surrogate Rec)	86	90	91	1.1				30 - 150	30
QA/QC Batch 239784, QC Sample No: BD99552 (BD99551, BD99552, BD99553, BD99558, BD99569, BD99574)									
<u>Polychlorinated Biphenyls - Solid</u>									
PCB-1016	ND	77	75	2.6	79	86	8.5	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	78	81	3.8	85	83	2.4	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	84	86	87	1.2	85	86	1.2	30 - 150	30
% TCMX (Surrogate Rec)	81	86	84	2.4	88	88	0.0	30 - 150	30
QA/QC Batch 238490, QC Sample No: BD99560 (BD99560, BD99570)									
<u>Polychlorinated Biphenyls - Solid</u>									
PCB-1016	ND	89	85	4.6	93	89	4.4	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	96	91	5.3	99	97	2.0	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	94	94	90	4.3	86	87	1.2	30 - 150	30
% TCMX (Surrogate Rec)	90	100	97	3.0	94	96	2.1	30 - 150	30
QA/QC Batch 238311, QC Sample No: BD99773 (BD99567)									
<u>Polychlorinated Biphenyls - Solid</u>									
PCB-1016	ND	85	78	8.6	89			40 - 140	30

QA/QC Data

SDG I.D.: GBD99551

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	87	85	2.3	90			40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	87	84	86	2.4	88			30 - 150	30
% TCMX (Surrogate Rec)	73	85	75	12.5	83			30 - 150	30

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

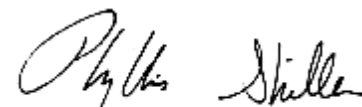
LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference



Phyllis Shiller, Laboratory Director
July 15, 2013

Monday, July 15, 2013

Requested Criteria: None

State: CT

Sample Criteria Exceedences Report

GBD99551 - GZA-PCB

Page 1 of 1

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** GZA-PCB

Project Location: COMMERCIAL FOUNDRY COM **Project Number:**

Laboratory Sample ID(s): BD99551, BD99552, BD99553, BD99554, BD99555, BD99556, BD99557, BD99558, BD99559, BD99560, BD99561, BD99562, BD99563, BD99564, BD99565, BD99566, BD99567, BD99568, BD99569, BD99570, BD99571, BD99572, BD99573, BD99574

Sampling Date(s): 6/30/2013

RCP Methods Used:


☐ 1311/1312 ☐ 6010 ☐ 7000 ☐ 7196 ☐ 7470/7471 ☐ 8081 ☐ EPH ☐ TO15
☒ 8082 ☐ 8151 ☐ 8260 ☐ 8270 ☐ ETPH ☐ 9010/9012 ☐ VPH

1.	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1a.	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1b.	EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2.	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4.	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5a.	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5b.	Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
6.	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

Note: For all questions to which the response was "No" (with the exception of question #5a, #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized
Signature: _____



Date: Monday, July 15, 2013
Printed Name: Greg Lawrence
Position: Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

July 15, 2013

SDG I.D.: GBD99551

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Au-ecd1 07/03/13-1 (BD99557, BD99566, BD99567)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 7/3/2013

Instrument: Au-ecd1 07/08/13-1 (BD99556)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 7/8/2013

Instrument: Au-ecd1 07/11/13-1 (BD99551, BD99552, BD99553, BD99558, BD99569, BD99574)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 7/11/2013

Instrument: Au-ecd24 07/02/13-1 (BD99562, BD99565)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

July 15, 2013

SDG I.D.: GBD99551

Printed Name Adam Werner
Position: Chemist
Date: 7/2/2013

Instrument: Au-ecd5 07/05/13-1 (BD99556)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 7/5/2013

Instrument: Au-ecd5 07/11/13-1 (BD99552)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 7/11/2013

Instrument: Au-ecd6 07/05/13-1 (BD99560, BD99570)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 7/5/2013

Instrument: Au-ecd7 07/03/13-1 (BD99560, BD99570)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

July 15, 2013

SDG LD.: GBD99551

Printed Name Adam Werner
Position: Chemist
Date: 7/3/2013



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

July 15, 2013

SDG I.D.: GBD99551

QC (Site Specific)

----- Sample No: BD99552, QA/QC Batch: 239784 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 40 - 140 with the following exceptions: None.

All MSD recoveries were within 40 - 140 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: None.

----- Sample No: BD99560, QA/QC Batch: 238490 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 40 - 140 with the following exceptions: None.

All MSD recoveries were within 40 - 140 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: None.

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

QC (Batch Specific)

----- Sample No: BD98924, QA/QC Batch: 238273 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

----- Sample No: BD99773, QA/QC Batch: 238311 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

July 15, 2013

SDG LD.: GBD99551

Temperature Narration

The samples in this delivery group were received at 6°C.
(Note acceptance criteria is above freezing up to 6°C)

Cooler: Yes ☐ No ☐
 Temp: 6 °C Pg 1 of 3

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, Manchester, CT 06040
 Email: info@phoenixlabs.com Fax (860) 645-0823
 Client Services (860) 645-8726



Customer: GZA Project: Commercial Forestry Company Project P.O.: 4326987
 Address: 655 Winding Brook Dr, Suite 402 Report to: Jim Hutton Phone #: 860-858-3135
Glastonbury, CT Invoice to: Jim Hutton Fax #: 860-652-8590

Client Sample - Information - Identification
 Sampler's Signature: Amey Date: 6/30/13
 Analysis Request: PCB (mave) Soxhlet

PHOENIX USE ONLY	SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
	99551	A-14-F-12 (0-0.5)	O	6/30/13	1000
	99552	A-14-F-13 (0-0.5)			1010
	99553	A-14-F-14 (0-0.5)			1020
	99554	A-14-F-15 (0-0.5)			1240
	99555	A-14-F-16 (0-0.5)			1245
	99556	A-14-F-17 (0-0.5)			1015
	99557	A-14-F-18 (0-0.5)			1020
	99558	A-14-F-19 (0-0.5)			1225
	99559	A-14-F-20 (0-0.5)			1230
	99560	A-14-F-21 (0-0.5)			1250
	99561	A-14-F-22 (0-0.5)			
	99562	A-14-F-23 (0-0.5)			
	99563	A-14-F-24 (0-0.5)			
	99564	A-14-F-25 (0-0.5)			
	99565	A-14-F-26 (0-0.5)			
	99566	A-14-F-27 (0-0.5)			
	99567	A-14-F-28 (0-0.5)			
	99568	A-14-F-29 (0-0.5)			
	99569	A-14-F-30 (0-0.5)			
	99570	A-14-F-31 (0-0.5)			
	99571	A-14-F-32 (0-0.5)			
	99572	A-14-F-33 (0-0.5)			
	99573	A-14-F-34 (0-0.5)			
	99574	A-14-F-35 (0-0.5)			
	99575	A-14-F-36 (0-0.5)			
	99576	A-14-F-37 (0-0.5)			
	99577	A-14-F-38 (0-0.5)			
	99578	A-14-F-39 (0-0.5)			
	99579	A-14-F-40 (0-0.5)			
	99580	A-14-F-41 (0-0.5)			
	99581	A-14-F-42 (0-0.5)			
	99582	A-14-F-43 (0-0.5)			
	99583	A-14-F-44 (0-0.5)			
	99584	A-14-F-45 (0-0.5)			
	99585	A-14-F-46 (0-0.5)			
	99586	A-14-F-47 (0-0.5)			
	99587	A-14-F-48 (0-0.5)			
	99588	A-14-F-49 (0-0.5)			
	99589	A-14-F-50 (0-0.5)			
	99590	A-14-F-51 (0-0.5)			
	99591	A-14-F-52 (0-0.5)			
	99592	A-14-F-53 (0-0.5)			
	99593	A-14-F-54 (0-0.5)			
	99594	A-14-F-55 (0-0.5)			
	99595	A-14-F-56 (0-0.5)			
	99596	A-14-F-57 (0-0.5)			
	99597	A-14-F-58 (0-0.5)			
	99598	A-14-F-59 (0-0.5)			
	99599	A-14-F-60 (0-0.5)			
	99600	A-14-F-61 (0-0.5)			
	99601	A-14-F-62 (0-0.5)			
	99602	A-14-F-63 (0-0.5)			
	99603	A-14-F-64 (0-0.5)			
	99604	A-14-F-65 (0-0.5)			
	99605	A-14-F-66 (0-0.5)			
	99606	A-14-F-67 (0-0.5)			
	99607	A-14-F-68 (0-0.5)			
	99608	A-14-F-69 (0-0.5)			
	99609	A-14-F-70 (0-0.5)			
	99610	A-14-F-71 (0-0.5)			
	99611	A-14-F-72 (0-0.5)			
	99612	A-14-F-73 (0-0.5)			
	99613	A-14-F-74 (0-0.5)			
	99614	A-14-F-75 (0-0.5)			
	99615	A-14-F-76 (0-0.5)			
	99616	A-14-F-77 (0-0.5)			
	99617	A-14-F-78 (0-0.5)			
	99618	A-14-F-79 (0-0.5)			
	99619	A-14-F-80 (0-0.5)			
	99620	A-14-F-81 (0-0.5)			
	99621	A-14-F-82 (0-0.5)			
	99622	A-14-F-83 (0-0.5)			
	99623	A-14-F-84 (0-0.5)			
	99624	A-14-F-85 (0-0.5)			
	99625	A-14-F-86 (0-0.5)			
	99626	A-14-F-87 (0-0.5)			
	99627	A-14-F-88 (0-0.5)			
	99628	A-14-F-89 (0-0.5)			
	99629	A-14-F-90 (0-0.5)			
	99630	A-14-F-91 (0-0.5)			
	99631	A-14-F-92 (0-0.5)			
	99632	A-14-F-93 (0-0.5)			
	99633	A-14-F-94 (0-0.5)			
	99634	A-14-F-95 (0-0.5)			
	99635	A-14-F-96 (0-0.5)			
	99636	A-14-F-97 (0-0.5)			
	99637	A-14-F-98 (0-0.5)			
	99638	A-14-F-99 (0-0.5)			
	99639	A-14-F-100 (0-0.5)			

Relinquished by: Amey Accepted by: Amey
 Date: 6/30/13 Time: 1750
 Date: 7/1/13 Time: 1010
 Date: 8/1/13 Time: 1105
 Turnaround: ☐ 1 Day* ☐ 2 Days* ☐ 3 Days* ☒ Standard ☐ Other
 Comments: Special Requirements or Regulations:
PCB analysis require mavei soxhlet extraction
Detection limits 0.5 mg/kg
* Sample not Rel'd to MSP

State where samples were collected: CT
 * SURCHARGE APPLIES

Cooler: Yes ☐ No ☐
Coolant: IPK ☐ ICE ☐ N ☐

6/20/13

Temp °C Pg 2 of 3

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726



Customer: GZA Project: Commercial Foundry Companies Project P.O.: 43369.83
Address: 655 Winding Brook Drive, Suite 402 Report to: Jim Hutton Phone #: 860-858-3735
Glastonbury, CT Invoice to: Jim Hutton Fax #: 860-652-8590

Client Sample - Information - Identification
Sampler's Signature: Anthony Sear Date: 6/20/13
Analysis Request: PERM and PCB

PHOENIX USE ONLY	SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
	99563	A-14-F-24 (0-0.5)	0	6/20/13	110
	99564	A-14-F-25 (0-0.5)			1115
	99565	A-14-F-26 (0-0.5)			1120
	99566	A-14-F-27 (0-0.5)			1035
	99567	A-14-F-28 (0-0.5)			1040
	99568	A-14-F-29 (0-0.5)			1155
	99569	A-14-F-30 (0-0.5)			1205
	99570	A-14-F-31 (0-0.5)			1135
	99571	A-14-F-32 (0-0.5)			1055
	99572	A-14-F-33 (0-0.5)			1100
	99573	A-14-F-34 (0-0.5)			1200
	99574	A-14-F-35 (0-0.5)			1210

Relinquished by: Anthony Sear Accepted by: James Phelan
Comments, Special Requirements or Regulations:
1. PCB analysis require manual Soxhlet extraction
2. Detection limit 0.5 mg/kg
Date: 6/20/13 Time: 1250
Turnaround: 7/11/13 10⁰⁰
7/11/13 1445
RI ☐ Direct Exposure (Residential) ☐ GW ☐ Other ☐
CT ☒ RCP Cert ☐ GW Protection ☐ SW Protection ☐ GA Mobility ☐ GB Mobility ☐ Residential DEC ☐ I/C DEC ☐ Other ☐
MA ☐ MCP Certification ☐ GW-1 ☐ GW-2 ☐ GW-3 ☐ S-1 ☐ S-2 ☐ S-3 ☐ MWRA eSMART ☐ Other ☐
Data Format: ☐ Excel ☒ PDF ☐ GIS/Key ☐ EQUIS ☐ Other ☐
Data Package: ☐ Tier II Checklist ☒ Full Data Package* ☐ Phoenix Std Report ☐ Other ☐
State where samples were collected: CT
* SURCHARGE APPLIES

Cooler: Yes ☐ No ☐
 Temp ☐ Pg 1 of 3

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, Manchester, CT 06040
 Email: info@phoenixlabs.com Fax (860) 645-0823
 Client Services (860) 645-8726



Customer: GZA
 Address: 655 Winding Brook Dr, Suite 402
 Glastonbury, CT

Project: Commercial Laundry Companies
 Report to: Jim Hutton
 Invoice to: Jim Hutton

Project P.O.: 4326987
 Phone #: 860-858-3135
 Fax #: 860-652-8590

Client Sample - Information - Identification
 Sampler's Signature: *Amel R* Date: 6/30/13

Matrix Code:
 DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
 SE=Sediment SL=Sludge S=Soil/Solid W=Wipe O=Other

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
99551	A-14-F-12 (0-0.5)	O	6/30/13	1000
99552	A-14-F-13 (0-0.5)			1010
99553	A-14-F-14 (0-0.5)			1020
99554	A-14-F-15 (0-0.5)			1030
99555	A-14-F-16 (0-0.5)			1045
99556	A-14-F-17 (0-0.5)			1015
99557	A-14-F-18 (0-0.5)			1020
99558	A-14-F-19 (0-0.5)			1025
99559	A-14-F-20 (0-0.5)			1030
99560	A-14-F-21 (0-0.5)			1050
99561	A-14-F-22 (0-0.5)			
99562	A-14-F-23 (0-0.5)			1105

Analysis Request	RI	CI	MA	Data Format
PCB (methyl Soxhlet)	PLACE ON HOLD	<input checked="" type="checkbox"/> RCP Cert <input type="checkbox"/> GW Protection <input type="checkbox"/> SW Protection <input type="checkbox"/> GA Mobility <input type="checkbox"/> GB Mobility <input type="checkbox"/> Residential DEC <input type="checkbox"/> I/C DEC <input type="checkbox"/> Other	<input type="checkbox"/> MCP Certification <input type="checkbox"/> GW-1 <input type="checkbox"/> GW-2 <input type="checkbox"/> GW-3 <input type="checkbox"/> S-1 <input type="checkbox"/> S-2 <input type="checkbox"/> S-3 <input type="checkbox"/> MWRA eSMART <input type="checkbox"/> Other	<input type="checkbox"/> Excel <input checked="" type="checkbox"/> PDF <input type="checkbox"/> GIS/Key <input type="checkbox"/> EQUIS <input type="checkbox"/> Other
Soil VOA Vial [] methanol [] H2O				
GL Soil container [] oz				
40 ml VOA Vial [] H2O				
GL Soil container [] H2O				
PL AS is [] 250ml [] 500ml [] 1000ml				
PL H2SO4 [] 250ml [] 500ml [] 1000ml				
PL HNO3 250ml				
Beaker Bottle				

Relinquished by: *Amel R*
 Accepted by: *Amel R*
 Date: 6/30/13 Time: 1750
 Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☒ Standard
☐ Other

Comments: Special Requirements or Regulations:
 PCB analysis require methyl soxhlet extraction
 Detection limit 0.5 mg/kg
 * Sample not Rel'd to MSP

State where samples were collected: CT
 * SURCHARGE APPLIES



Tuesday, July 23, 2013

Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Project ID: COMMERCIAL FOUNDRY COMPANIES
Sample ID#s: BD99568, BD99571 - BD99573

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 23, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 4336983

Custody Information

Collected by: AT
Received by: LB
Analyzed by: see "By" below

Date Time

06/30/13 11:55
07/01/13 16:15

Laboratory Data

SDG ID: GBD99551
Phoenix ID: BD99568

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: A-14-F-29 (0-0.5)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	99		%	07/15/13	JL	E160.3
Extraction for PCB	Completed			07/18/13	PP/K	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.33	mg/kg	07/19/13	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	07/19/13	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	07/19/13	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	07/19/13	AW	3540C/8082
PCB-1248	0.89	0.33	mg/kg	07/19/13	AW	3540C/8082
PCB-1254	ND	0.33	mg/kg	07/19/13	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	07/19/13	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	07/19/13	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	07/19/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	92	%	07/19/13	AW	30 - 150 %
% TCMX	90	%	07/19/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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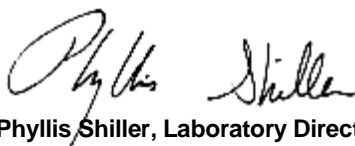
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

July 23, 2013

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 23, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 4336983

Custody Information

Collected by: AT
Received by: LB
Analyzed by: see "By" below

Date

06/30/13
07/01/13

Time

10:55
16:15

Laboratory Data

SDG ID: GBD99551
Phoenix ID: BD99571

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: A-14-F-32 (0-0.5)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	97		%	07/15/13	JL	E160.3
Extraction for PCB	Completed			07/18/13	PP/K	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.34	mg/kg	07/19/13	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	07/19/13	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	07/19/13	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	07/19/13	AW	3540C/8082
PCB-1248	1.4	0.34	mg/kg	07/19/13	AW	3540C/8082
PCB-1254	ND	0.34	mg/kg	07/19/13	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	07/19/13	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	07/19/13	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	07/19/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	89	%	07/19/13	AW	30 - 150 %
% TCMX	92	%	07/19/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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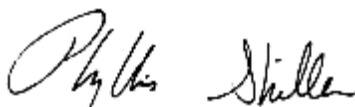
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

July 23, 2013

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 23, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 4336983

Custody Information

Collected by: AT
Received by: LB
Analyzed by: see "By" below

Date

06/30/13 11:00
07/01/13 16:15

Time

Laboratory Data

SDG ID: GBD99551
Phoenix ID: BD99572

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: A-14-F-33 (0-0.5)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	97		%	07/15/13	JL	E160.3
Extraction for PCB	Completed			07/18/13	PP/K	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.34	mg/kg	07/19/13	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	07/19/13	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	07/19/13	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	07/19/13	AW	3540C/8082
PCB-1248	ND	0.34	mg/kg	07/19/13	AW	3540C/8082
PCB-1254	ND	0.34	mg/kg	07/19/13	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	07/19/13	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	07/19/13	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	07/19/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	99	%	07/19/13	AW	30 - 150 %
% TCMX	86	%	07/19/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
-----------	--------	------------	-------	-----------	----	-----------

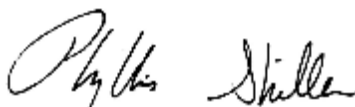
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

July 23, 2013

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 23, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 4336983

Custody Information

Collected by: AT
Received by: LB
Analyzed by: see "By" below

Date Time

06/30/13 12:00
07/01/13 16:15

Laboratory Data

SDG ID: GBD99551
Phoenix ID: BD99573

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: A-14-F-34 (0-0.5)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	97		%	07/15/13	JL	E160.3
Extraction for PCB	Completed			07/18/13	PP/K	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.34	mg/kg	07/19/13	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	07/19/13	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	07/19/13	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	07/19/13	AW	3540C/8082
PCB-1248	1.9	0.34	mg/kg	07/19/13	AW	3540C/8082
PCB-1254	ND	0.34	mg/kg	07/19/13	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	07/19/13	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	07/19/13	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	07/19/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	92	%	07/19/13	AW	30 - 150 %
% TCMX	93	%	07/19/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
-----------	--------	------------	-------	-----------	----	-----------

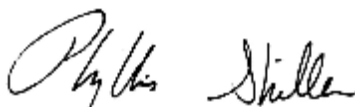
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

July 23, 2013

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

July 23, 2013

QA/QC Data

SDG I.D.: GBD99551

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 238273, QC Sample No: BD98924 (BD99556, BD99557, BD99562, BD99565, BD99566)									
<u>Polychlorinated Biphenyls - Solid</u>									
PCB-1016	ND	90	91	1.1				40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	88	88	0.0				40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	85	85	86	1.2				30 - 150	30
% TCMX (Surrogate Rec)	86	90	91	1.1				30 - 150	30
QA/QC Batch 239784, QC Sample No: BD99552 (BD99551, BD99552, BD99553, BD99558, BD99569, BD99574)									
<u>Polychlorinated Biphenyls - Solid</u>									
PCB-1016	ND	77	75	2.6	79	86	8.5	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	78	81	3.8	85	83	2.4	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	84	86	87	1.2	85	86	1.2	30 - 150	30
% TCMX (Surrogate Rec)	81	86	84	2.4	88	88	0.0	30 - 150	30
QA/QC Batch 238490, QC Sample No: BD99560 (BD99560, BD99570)									
<u>Polychlorinated Biphenyls - Solid</u>									
PCB-1016	ND	89	85	4.6	93	89	4.4	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	96	91	5.3	99	97	2.0	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	94	94	90	4.3	86	87	1.2	30 - 150	30
% TCMX (Surrogate Rec)	90	100	97	3.0	94	96	2.1	30 - 150	30
QA/QC Batch 241301, QC Sample No: BD99568 (BD99568, BD99571, BD99572, BD99573)									
<u>Polychlorinated Biphenyls - Solid</u>									
PCB-1016	ND	85	98	14.2	104	97	7.0	40 - 140	30

QA/QC Data

SDG I.D.: GBD99551

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	95	97	2.1	104	104	0.0	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	106	103	106	2.9	105	106	0.9	30 - 150	30
% TCMX (Surrogate Rec)	94	87	101	14.9	96	84	13.3	30 - 150	30

QA/QC Batch 238311, QC Sample No: BD99773 (BD99567)

Polychlorinated Biphenyls - Solid

PCB-1016	ND	85	78	8.6	89			40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	87	85	2.3	90			40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	87	84	86	2.4	88			30 - 150	30
% TCMX (Surrogate Rec)	73	85	75	12.5	83			30 - 150	30

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

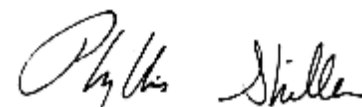
LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference



Phyllis Shiller, Laboratory Director

July 23, 2013

Tuesday, July 23, 2013

Requested Criteria: None

State: CT

Sample Criteria Exceedences Report

GBD99551 - GZA-PCB

Page 1 of 1

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
--------	-------	-----------------	----------	--------	----	----------	----------------	-------------------

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** GZA-PCB

Project Location: COMMERCIAL FOUNDRY COM **Project Number:**

Laboratory Sample ID(s): BD99551, BD99552, BD99553, BD99554, BD99555, BD99556, BD99557, BD99558, BD99559, BD99560, BD99561, BD99562, BD99563, BD99564, BD99565, BD99566, BD99567, BD99568, BD99569, BD99570, BD99571, BD99572, BD99573, BD99574

Sampling Date(s): 6/30/2013

RCP Methods Used:


☐ 1311/1312 ☐ 6010 ☐ 7000 ☐ 7196 ☐ 7470/7471 ☐ 8081 ☐ EPH ☐ TO15
☒ 8082 ☐ 8151 ☐ 8260 ☐ 8270 ☐ ETPH ☐ 9010/9012 ☐ VPH

1.	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1a.	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1b.	EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2.	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4.	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5a.	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5b.	Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
6.	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

Note: For all questions to which the response was "No" (with the exception of question #5a, #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized
Signature: _____



Date: Tuesday, July 23, 2013
Printed Name: Greg Lawrence
Position: Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

July 23, 2013

SDG I.D.: GBD99551

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Au-ecd1 07/03/13-1 (BD99557, BD99566, BD99567)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 7/3/2013

Instrument: Au-ecd1 07/08/13-1 (BD99556)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 7/8/2013

Instrument: Au-ecd1 07/11/13-1 (BD99551, BD99552, BD99553, BD99558, BD99569, BD99574)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 7/11/2013

Instrument: Au-ecd24 07/02/13-1 (BD99562, BD99565)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none



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RCP Certification Report

July 23, 2013

SDG I.D.: GBD99551

Printed Name Adam Werner
Position: Chemist
Date: 7/2/2013

Instrument: Au-ecd5 07/05/13-1 (BD99556)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 7/5/2013

Instrument: Au-ecd5 07/11/13-1 (BD99552)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 7/11/2013

Instrument: Au-ecd6 07/05/13-1 (BD99560, BD99570)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 7/5/2013

Instrument: Au-ecd6 07/19/13-1 (BD99568, BD99571, BD99572, BD99573)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none



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RCP Certification Report

July 23, 2013

SDG ID.: GBD99551

Printed Name Adam Werner
Position: Chemist
Date: 7/19/2013

Instrument: Au-ecd7 07/03/13-1 (BD99560, BD99570)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 7/3/2013



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Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

July 23, 2013

SDG I.D.: GBD99551

QC (Site Specific)

----- Sample No: BD99552, QA/QC Batch: 239784 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 40 - 140 with the following exceptions: None.

All MSD recoveries were within 40 - 140 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: None.

----- Sample No: BD99560, QA/QC Batch: 238490 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 40 - 140 with the following exceptions: None.

All MSD recoveries were within 40 - 140 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: None.

----- Sample No: BD99568, QA/QC Batch: 241301 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 40 - 140 with the following exceptions: None.

All MSD recoveries were within 40 - 140 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: None.

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

QC (Batch Specific)

----- Sample No: BD98924, QA/QC Batch: 238273 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.



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Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

July 23, 2013

SDG LD.: GBD99551

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

----- Sample No: BD99773, QA/QC Batch: 238311 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Temperature Narration

The samples in this delivery group were received at 6°C.
(Note acceptance criteria is above freezing up to 6°C)

Cooler: Yes ☐ No ☐
Coolant: IPK ☐ ICE ☐ N ☐

6/20/13

Temp °C Pg 2 of 3

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726



Customer: GZA Project: Commercial Foundry Companies Project P.O.: 43369.83
Address: 655 Winding Brook Drive, Suite 402 Report to: Jim Hutton Phone #: 860-858-3735
Glastonbury, CT Invoice to: Jim Hutton Fax #: 860-652-8590

Sampler's Signature: Anthony Sear Date: 6/20/13
Client Sample - Information - Identification

Matrix Code: DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
SE=Sediment SL=Sludge S=Soil/Solid W=Wipe O=Other

PHOENIX USE ONLY	SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
	99563	A-14-F-24 (0-0.5)	O	6/20/13	110
	99564	A-14-F-25 (0-0.5)			1115
	99565	A-14-F-26 (0-0.5)			1120
	99566	A-14-F-27 (0-0.5)			1035
	99567	A-14-F-28 (0-0.5)			1040
	99568	A-14-F-29 (0-0.5)			1155
	99569	A-14-F-30 (0-0.5)			1205
	99570	A-14-F-31 (0-0.5)			1135
	99571	A-14-F-32 (0-0.5)			1055
	99572	A-14-F-33 (0-0.5)			1100
	99573	A-14-F-34 (0-0.5)			1200
	99574	A-14-F-35 (0-0.5)			1210

Relinquished by: Anthony Sear Accepted by: James Phelan
Comments, Special Requirements or Regulations:
1. All analysis require manual Soxhlet extraction
2. Detection limit 0.5 mg/kg

Date: 6/20/13 Time: 1250
7/11/13 10⁰⁰
7/11/13 1415

Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☒ Standard
☐ Other

* SURCHARGE APPLIES

State where samples were collected: CT
* SURCHARGE APPLIES

Soil VOA Vials [methanol] H2O	
GL Soil container ()	
40 ml VOA Vial [As is] HCl	
GL Amber 1000ml [As is] H2SO4	
PL As is [1250ml] 500ml [1000ml]	
PL H2SO4 [1250ml] 500ml [1000ml]	
PL HNO3 250ml [1000ml]	
Bacteria Bottle	

Cooler: Yes ☐ No ☐
 Temp ☐ Pg 1 of 3

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, Manchester, CT 06040
 Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726



Customer: GZA
 Address: 655 Winding Brook Dr, Suite 402
Glastonbury, CT

Project: Commercial Laundry Companies
 Report to: Jim Hutton
 Invoice to: Jim Hutton

Project P.O.: 4326987
 Phone #: 860-858-3135
 Fax #: 860-652-8590

Data Delivery:

☐ Fax #

Email: james.hutton@qza.com

Client Sample - Information - Identification

Sampler's Signature: Amel R Date: 6/30/13

Matrix Code:
 DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
 SE=Sediment SL=Sludge S=Soil/Solid W=Wipe O=Other

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
99551	A-14-F-12 (0-0.5)	O	6/30/13	1000
99552	A-14-F-13 (0-0.5)			1010
99553	A-14-F-14 (0-0.5)			1020
99554	A-14-F-15 (0-0.5)			1030
99555	A-14-F-16 (0-0.5)			1045
99556	A-14-F-17 (0-0.5)			1015
99557	A-14-F-18 (0-0.5)			1020
99558	A-14-F-19 (0-0.5)			1025
99559	A-14-F-20 (0-0.5)			1030
99560	A-14-F-21 (0-0.5)			1050
99561	A-14-F-22 (0-0.5)			
99562	A-14-F-23 (0-0.5)			1105

Analysis
Request

Soil VOA Vial [] methanol [] H2O	
GL Soil container [] oz	
40 ml VOA Vial [] H2O	
GL Soil container [] H2O	
PL AS is [] 250ml [] 500ml [] 1000ml	
PL H2SO4 [] 250ml [] 500ml [] 1000ml	
PL HNO3 250ml	
Bacteria Bottle	

PCB (methyl soxlet)

PLACE ON HOLD

PLACE ON HOLD

99561

99562

Relinquished by: Amel R

Accepted by: James Hutton

Date: 6/30/13 Time: 1750

RI ☐ Direct Exposure (Residential) ☐ GW ☐ Other

CI ☒ RCP Cert ☐ GW Protection ☐ SW Protection ☐ GA Mobility ☐ GB Mobility ☐ Residential DEC ☐ I/C DEC ☐ Other

MA ☐ MCP Certification ☐ GW-1 ☐ GW-2 ☐ GW-3 ☐ S-1 ☐ S-2 ☐ S-3 ☐ MWRA eSMART ☐ Other

Data Format ☐ Excel ☒ PDF ☐ GIS/Key ☐ EQUIS ☐ Other

Data Package ☐ Tier II Checklist ☒ Full Data Package* ☐ Phoenix Std Report ☐ Other

Comments: Special Requirements or Regulations:
 PCB analysis require methyl soxlet extraction
 Detection limit 0.5 mg/kg

Turnaround:
☐ 1 Day* ☐ 2 Days* ☐ 3 Days* ☒ Standard ☐ Other

* SURCHARGE APPLIES

State where samples were collected: CT

* SURCHARGE APPLIES

* SURCHARGE APPLIES

* SURCHARGE APPLIES

* Sample not Rel'd to MSP

Linda - Phoenixlabs

From: Benjamin Graham [Benjamin.Graham@gza.com]

Sent: Monday, July 15, 2013 3:35 PM

To: Linda - Phoenixlabs

Subject: RE: additional analysis-CFC 43369.83

Linda, here are the samples to run with Phoenix IDs for PCBs by manual soxhlet extraction. Please let me know if you need anything else. Standard TAT. Thanks-

Sample ID	Phoenix ID
A14-F-29 (0-0.5)	99568
A14-F-32 (0-0.5)	99571
A14-F-33 (0-0.5)	99572
A14-F-34 (0-0.5)	99573
A14-F-12 (0.5-1)	99578
A14-F-35 (0.5-1.0)	99600
A14-S-22 (0-0.25)	00861 ✓
A14-S-23 (0-0.25)	00868

From: Linda - Phoenixlabs [mailto:linda@phoenixlabs.com]

Sent: Monday, July 15, 2013 3:20 PM

To: Benjamin Graham

Subject: RE: additional analysis-CFC 43369.83

Hi Ben

We need the Phoenix ID's numbers please.

Linda

-Linda Chapman

Client Services Representative

Phoenix Environmental Laboratories

587 East Middle Turnpike

Manchester, CT 06040

Ph: 1-860-645-1102

This message is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law.

From: Benjamin Graham [mailto:Benjamin.Graham@gza.com]

Sent: Monday, July 15, 2013 3:17 PM

To: Linda - Phoenixlabs

Subject: RE: additional analysis-CFC 43369.83

7/15/2013



Tuesday, July 09, 2013

Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Project ID: COMMERCIAL FOUNDRY COMPANIES
Sample ID#s: BD99575 - BD99576

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 09, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 4336983

Custody Information

Collected by: AT
Received by: LB
Analyzed by: see "By" below

Date Time

06/30/13 11:40
07/01/13 16:15

Laboratory Data

SDG ID: GBD99575
Phoenix ID: BD99575

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: A-14-F-36 (0-0.5)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	96		%	07/01/13	JL	E160.3
Extraction for PCB	Completed			07/01/13	PP/HB/K	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.34	mg/kg	07/03/13	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	07/03/13	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	07/03/13	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	07/03/13	AW	3540C/8082
PCB-1248	1.3	0.34	mg/kg	07/03/13	AW	3540C/8082
PCB-1254	ND	0.34	mg/kg	07/03/13	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	07/03/13	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	07/03/13	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	07/03/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	100	%	07/03/13	AW	30 - 150 %
% TCMX	100	%	07/03/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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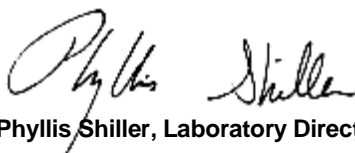
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

July 09, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 09, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 4336983

Custody Information

Collected by: AT
Received by: LB
Analyzed by: see "By" below

Date Time

06/30/13 11:40
07/01/13 16:15

Laboratory Data

SDG ID: GBD99575
Phoenix ID: BD99576

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: A-14-F-37 (0-0.5)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	95		%	07/01/13	JL	E160.3
Extraction for PCB	Completed			07/01/13	PP/HB/K	SW3540C

PCB (Soxhlet)

PCB-1016	ND	1.7	mg/kg	07/03/13	AW	3540C/8082
PCB-1221	ND	1.7	mg/kg	07/03/13	AW	3540C/8082
PCB-1232	ND	1.7	mg/kg	07/03/13	AW	3540C/8082
PCB-1242	ND	1.7	mg/kg	07/03/13	AW	3540C/8082
PCB-1248	5.2	1.7	mg/kg	07/03/13	AW	3540C/8082
PCB-1254	ND	1.7	mg/kg	07/03/13	AW	3540C/8082
PCB-1260	ND	1.7	mg/kg	07/03/13	AW	3540C/8082
PCB-1262	ND	1.7	mg/kg	07/03/13	AW	3540C/8082
PCB-1268	ND	1.7	mg/kg	07/03/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out	%	07/03/13	AW	30 - 150 %
% TCMX	Diluted Out	%	07/03/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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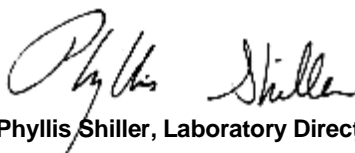
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

July 09, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

July 09, 2013

QA/QC Data

SDG I.D.: GBD99575

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 238311, QC Sample No: BD99773 (BD99575, BD99576)									
Polychlorinated Biphenyls - Solid									
PCB-1016	ND	85	78	8.6	89			40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	87	85	2.3	90			40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	87	84	86	2.4	88			30 - 150	30
% TCMX (Surrogate Rec)	73	85	75	12.5	83			30 - 150	30

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis Shiller, Laboratory Director
July 09, 2013

Tuesday, July 09, 2013

Requested Criteria: None

State: CT

Sample Criteria Exceedences Report

GBD99575 - GZA-PCB

Page 1 of 1

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** GZA-PCB

Project Location: COMMERCIAL FOUNDRY COM **Project Number:**

Laboratory Sample ID(s): BD99575, BD99576, BD99577

Sampling Date(s): 6/30/2013

RCP Methods Used:

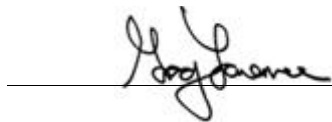
☐ 1311/1312 ☐ 6010 ☐ 7000 ☐ 7196 ☐ 7470/7471 ☐ 8081 ☐ EPH ☐ TO15
☒ 8082 ☐ 8151 ☐ 8260 ☐ 8270 ☐ ETPH ☐ 9010/9012 ☐ VPH

1.	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1a.	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1b.	EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2.	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4.	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5a.	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5b.	Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
6.	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA

Note: For all questions to which the response was "No" (with the exception of question #5a, #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized
Signature: _____



Date: Tuesday, July 09, 2013
 Printed Name: Greg Lawrence
 Position: Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

July 09, 2013

SDG ID.: GBD99575

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Au-ecd1 07/03/13-1 (BD99575, BD99576)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner

Position: Chemist

Date: 7/3/2013

QC (Batch Specific)

----- Sample No: BD99773, QA/QC Batch: 238311 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Temperature Narration

The samples were received at 6C with cooling initiated.

(Note acceptance criteria is above freezing up to 6°C)

Cooler: Yes ☐ No ☐
Init: IPK ☐ ICE ☐ N ☐

Temp °C Pg 3 of 3

CHAIN OF CUSTODY RECORD



587 East Middle Turnpike, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Data Delivery:

☐ Fax #
☒ Email: jenel.hutton@pze.com

Customer: GZA Project: Commercial Laundry Company Project P.O.: 43361, 87
Address: 655 Winding Brook Drive, Suite 402 Report to: J.A. Hutton Phone #: 860-838-3735
Glastonbury, CT Invoice to: J.A. Hutton Fax #: 860-652-8590

Client Sample - Information - Identification
Sampler's Signature: Anthony T... Date: 6/20/13
Analysis Request: PEB (manual Soxhlet)

Matrix Code:
DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
SE=Sediment SL=Sludge S=Soil/Solid W=Wipe O=Other

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
99575	A-14-F-36(0-0.5)	O	6/20/13	1140
99576	A-14-F-37(0-0.5)	O	6/20/13	
99577	A-14-F-38(0-0.5)	O	6/20/13	

Relinquished by: <u>Anthony T...</u>	Accepted by: <u>Base ch...</u>	Date: <u>6/20/13</u>	Time: <u>1750</u>	RI: <input type="checkbox"/> Direct Exposure (Residential) <input type="checkbox"/> GW <input type="checkbox"/> Other	CT: <input checked="" type="checkbox"/> RCP Cert <input type="checkbox"/> GW Protection <input type="checkbox"/> SW Protection <input type="checkbox"/> GA Mobility <input type="checkbox"/> GB Mobility <input type="checkbox"/> Residential DEC <input type="checkbox"/> I/C DEC <input type="checkbox"/> Other	MA: <input type="checkbox"/> MCP Certification <input type="checkbox"/> GW-1 <input type="checkbox"/> GW-2 <input type="checkbox"/> GW-3 <input type="checkbox"/> S-1 <input type="checkbox"/> S-2 <input type="checkbox"/> S-3 <input type="checkbox"/> MWRA eSMART <input type="checkbox"/> Other	Data Format: <input type="checkbox"/> Excel <input checked="" type="checkbox"/> PDF <input type="checkbox"/> GIS/Key <input type="checkbox"/> EQUIS <input type="checkbox"/> Other	Data Package: <input type="checkbox"/> Tier II Checklist <input checked="" type="checkbox"/> Full Data Package* <input type="checkbox"/> Phoenix Std Report <input type="checkbox"/> Other
Turnaround: <input type="checkbox"/> 1 Day* <input type="checkbox"/> 2 Days* <input type="checkbox"/> 3 Days* <input checked="" type="checkbox"/> Standard <input type="checkbox"/> Other				State where samples were collected: <u>CT</u>				
Comments, Special Requirements or Regulations: <u>1. PCB analysis requires manual Soxhlet extraction</u> <u>2. Detection limits 0.5 mg/kg</u>								



Wednesday, July 31, 2013

Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Project ID: COMMERCIAL FOUNDRY COMPANIES
Sample ID#s: BD99597, BD99599

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 31, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 4336982

Custody Information

Collected by: AT
Received by: LB
Analyzed by: see "By" below

Date Time

06/30/13 15:25
07/01/13 16:15

Laboratory Data

SDG ID: GBD99578
Phoenix ID: BD99597

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: A-14-F-32 (0.5-1)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	94		%	07/22/13	EG	E160.3
Extraction for PCB	Completed			07/26/13	NB/HB	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.35	mg/kg	07/29/13	AW	3540C/8082
PCB-1221	ND	0.35	mg/kg	07/29/13	AW	3540C/8082
PCB-1232	ND	0.35	mg/kg	07/29/13	AW	3540C/8082
PCB-1242	ND	0.35	mg/kg	07/29/13	AW	3540C/8082
PCB-1248	0.43	0.35	mg/kg	07/29/13	AW	3540C/8082
PCB-1254	ND	0.35	mg/kg	07/29/13	AW	3540C/8082
PCB-1260	ND	0.35	mg/kg	07/29/13	AW	3540C/8082
PCB-1262	ND	0.35	mg/kg	07/29/13	AW	3540C/8082
PCB-1268	ND	0.35	mg/kg	07/29/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	89	%	07/29/13	AW	30 - 150 %
% TCMX	94	%	07/29/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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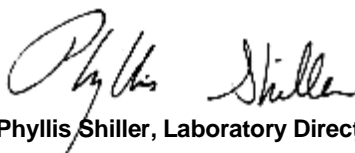
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

July 31, 2013

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 31, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 4336982

Custody Information

Collected by: AT
Received by: LB
Analyzed by: see "By" below

Date Time

06/30/13 15:35
07/01/13 16:15

Laboratory Data

SDG ID: GBD99578
Phoenix ID: BD99599

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: A-14-F-34 (0.5-1)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	97		%	07/22/13	EG	E160.3
Extraction for PCB	Completed			07/26/13	NB/HB	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.34	mg/kg	07/29/13	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	07/29/13	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	07/29/13	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	07/29/13	AW	3540C/8082
PCB-1248	ND	0.34	mg/kg	07/29/13	AW	3540C/8082
PCB-1254	ND	0.34	mg/kg	07/29/13	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	07/29/13	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	07/29/13	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	07/29/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	111	%	07/29/13	AW	30 - 150 %
% TCMX	93	%	07/29/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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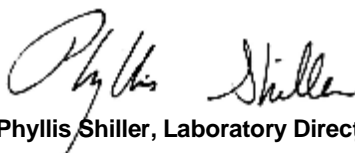
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

July 31, 2013

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

July 31, 2013

QA/QC Data

SDG I.D.: GBD99578

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 239784, QC Sample No: BD99552 (BD99583, BD99584, BD99601)									
<u>Polychlorinated Biphenyls - Solid</u>									
PCB-1016	ND	77	75	2.6	79	86	8.5	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	78	81	3.8	85	83	2.4	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	84	86	87	1.2	85	86	1.2	30 - 150	30
% TCMX (Surrogate Rec)	81	86	84	2.4	88	88	0.0	30 - 150	30
QA/QC Batch 241301, QC Sample No: BD99568 (BD99578, BD99600)									
<u>Polychlorinated Biphenyls - Solid</u>									
PCB-1016	ND	85	98	14.2	104	97	7.0	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	95	97	2.1	104	104	0.0	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	106	103	106	2.9	105	106	0.9	30 - 150	30
% TCMX (Surrogate Rec)	94	87	101	14.9	96	84	13.3	30 - 150	30
QA/QC Batch 242672, QC Sample No: BF11399 (BD99597, BD99599)									
<u>Polychlorinated Biphenyls - Solid</u>									
PCB-1016	ND	84			52	83	45.9	40 - 140	30 r
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	90			93	94	1.1	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	95	95			94	96	2.1	30 - 150	30
% TCMX (Surrogate Rec)	85	86			36	86	82.0	30 - 150	30 r

r = This parameter is outside laboratory rpd specified recovery limits.

QA/QC Data

SDG I.D.: GBD99578

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

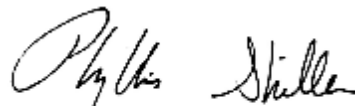
LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference



Phyllis Shiller, Laboratory Director

July 31, 2013

Wednesday, July 31, 2013

Requested Criteria: None

State: CT

Sample Criteria Exceedences Report

GBD99578 - GZA-PCB

Page 1 of 1

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** GZA-PCB

Project Location: COMMERCIAL FOUNDRY COM **Project Number:**

Laboratory Sample ID(s): BD99578, BD99579, BD99580, BD99581, BD99582, BD99583, BD99584, BD99585, BD99586, BD99587, BD99588, BD99589, BD99590, BD99591, BD99592, BD99593, BD99594, BD99595, BD99596, BD99597, BD99598, BD99599, BD99600, BD99601

Sampling Date(s): 6/30/2013

RCP Methods Used:

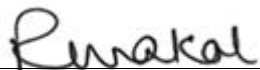
☐ 1311/1312 ☐ 6010 ☐ 7000 ☐ 7196 ☐ 7470/7471 ☐ 8081 ☐ EPH ☐ TO15
☒ 8082 ☐ 8151 ☐ 8260 ☐ 8270 ☐ ETPH ☐ 9010/9012 ☐ VPH

1.	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1a.	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1b.	EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2.	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4.	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5a.	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5b.	Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
6.	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA

Note: For all questions to which the response was "No" (with the exception of question #5a, #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized
Signature: _____



Date: Wednesday, July 31, 2013

Printed Name: Rashmi Makol

Position: Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

July 31, 2013

SDG ID.: GBD99578

Sample BD99597 was analyzed past hold time for Percent Solid (E160.3).
Sample BD99597 was analyzed past hold time for Extraction for PCB (SW3540C).
Sample BD99599 was analyzed past hold time for Percent Solid (E160.3).
Sample BD99599 was analyzed past hold time for Extraction for PCB (SW3540C).

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Au-ecd1 07/11/13-1 (BD99583, BD99601)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 7/11/2013

Instrument: Au-ecd1 07/12/13-1 (BD99584)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 7/12/2013

Instrument: Au-ecd1 07/15/13-1 (BD99584)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 7/15/2013



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

July 31, 2013

SDG I.D.: GBD99578

Instrument: Au-ecd6 07/19/13-1 (BD99578, BD99600)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner

Position: Chemist

Date: 7/19/2013

Instrument: Au-ecd6 07/29/13-1 (BD99597, BD99599)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner

Position: Chemist

Date: 7/29/2013

QC (Batch Specific)

----- Sample No: BD99552, QA/QC Batch: 239784 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

----- Sample No: BD99568, QA/QC Batch: 241301 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

----- Sample No: BF11399, QA/QC Batch: 242672 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

Temperature Narration



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

July 31, 2013

SDG LD.: GBD99578

The samples were received at 6.0C with cooling initiated.
(Note acceptance criteria is above freezing up to 6°C)

Cooler: Yes ☐ No ☐
 IPK ☐ ICE ☐ N ☐

Temp °C Pg 1 of 2

CHAIN OF CUSTODY RECORD

Data Delivery:
☐ Fax #
☒ Email: jenel.hutton@psr.com

587 East Middle Turnpike, Manchester, CT 06040
 Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726



Project: Connecticut Family Compound
Report to: J.M. Hutton
Invoice to: J.M. Hutton

Project P.O.: 4378881
Phone #: 860-858-3135
Fax #: 860-652-8590

Customer: GRCA
Address: 655 Windy Brook Dr, Suite 402
Glastonbury, CT

Client Sample - Information - Identification			
Sampler's Signature <u>Anthony T...</u>	Date: <u>6/30/13</u>		
Matrix Code: DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water SE=Sediment SL=Sludge S=Soil/Solid W=Wipe O=Other			
PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled
99578	A-14-F-12 (0.5-1)	O	6/30/13
99579	A-14-F-13 (0.5-1)		
99580	A-14-F-14 (0.5-1)		
99581	A-14-F-15 (0.5-1)		
99582	A-14-F-16 (0.5-1)		
99583	A-14-F-17 (0.5-1)		
99584	A-14-F-18 (0.5-1)		
99585	A-14-F-19 (0.5-1)		
99586	A-14-F-20 (0.5-1)		
99587	A-14-F-21 (0.5-1)		
99588	A-14-F-23 (0.5-1)		
99589	A-14-F-27 (0.5-1)		

Analysis Request	PCB (Enviro) (P-14-F-20)	PLACE ON HOLD	
Soil VOA Vials () H2O			
GL Soil container () oz			
GL Soil container () methanol () H2O			
40 ml VOA Vial () oz			
GL Amber 1000ml () HCl			
PL As is () 250ml () 500ml () 1000ml			
PL H2SO4 () 250ml () 500ml () 1000ml			
PL HNO3 250ml			
Bacteria Bottle			

Relinquished by:	Accepted by:	Date:	Time:	RI	CT	MA	Data Format
<u>Anthony T...</u>	<u>Anthony T...</u>	6/21/13	1750	<input type="checkbox"/> Direct Exposure (Residential) <input type="checkbox"/> GW <input type="checkbox"/> Other	<input checked="" type="checkbox"/> RCP Cert <input type="checkbox"/> GW Protection <input type="checkbox"/> SW Protection <input type="checkbox"/> GA Mobility <input type="checkbox"/> GB Mobility <input type="checkbox"/> Residential DEC <input type="checkbox"/> IIC DEC <input type="checkbox"/> Other	<input type="checkbox"/> MCP Certification <input type="checkbox"/> GW-1 <input type="checkbox"/> GW-2 <input type="checkbox"/> GW-3 <input type="checkbox"/> S-1 <input type="checkbox"/> S-2 <input type="checkbox"/> S-3 <input type="checkbox"/> MWRA eSMART <input type="checkbox"/> Other	<input type="checkbox"/> Excel <input checked="" type="checkbox"/> PDF <input type="checkbox"/> GIS/Key <input type="checkbox"/> EQUIS <input type="checkbox"/> Other
Comments, Special Requirements or Regulations: <u>WACB analysis req. dir. matrix) Soxhlet extraction</u> <u>2. Detection limits 0.5 mg/kg</u> <u>① June order 1440</u> <u>② June order 1435</u>				State where samples were collected: <u>CT</u> * SURCHARGE APPLIES			

①
②

Linda - Phoenixlabs

From: Anthony Trani [Anthony.Trani@gza.com]
Sent: Wednesday, July 10, 2013 10:35 AM
To: 'linda@phoenixlabs.com'
Cc: James Hutton
Subject: Commercial Foundry Samples to run

Linda,

Can we please have the following samples taken off hold and run for PCB using manual soxhlet. *6-BD99578*
Standard TOT. The job is Commercial Foundry (43369.83)

Concrete Floor Samples

GZA ID: A-14-F-17 (0.5-1)	Phoenix ID: 99583
GZA ID: A-14-F-18 (0.5-1)	Phoenix ID: 99584
GZA ID: A-14-F-36 (0.5-1)	Phoenix ID: 99601
GZA ID: A-14-F-12 (0-0.5)	Phoenix ID: 99551
GZA ID: A-14-F-13 (0-0.5)	Phoenix ID: 99552
GZA ID: A-14-F-14 (0-0.5)	Phoenix ID: 99553
GZA ID: A-14-F-19 (0-0.5)	Phoenix ID: 99558
GZA ID: A-14-F-30 (0-0.5)	Phoenix ID: 99569
GZA ID: A-14-F-35 (0-0.5)	Phoenix ID: 99574

Soil Samples

GZA ID: A-14-S24 (0-0.25)	Phoenix ID: 00875	<i>6BF 00861</i>
GZA ID: Ext-6 (0.25-0.5)	Phoenix ID: 00904	
GZA ID: Ext-9 (0.75-1)	Phoenix ID: 00923	
GZA ID: Ext-10 (1.75-2)	Phoenix ID: 00930	
GZA ID: Ext-10(2.75-3)	Phoenix ID: 00931	
GZA ID: EXT-103	Phoenix ID: 99779	I sent an email yesterday requesting this but did not get a confirmation from you so I am including it again.

Can we have the following samples taken off hold and run for ETPH. Standard TOT.

Soil Samples

GZA ID: A-1-S-8 (1-2)	Phoenix ID: 99799	<i>6BD99791</i>
GZA ID: A-3-S-18	Phoenix ID: 01299	Note-This sample name should be change as <i>6BD01298</i>

follows: A-3-S-18 (2-4)

Anthony Trani

Scientist

GZA GeoEnvironmental, Inc.
655 Winding Brook Drive, Suite 402
Glastonbury, Connecticut 06033
(860) 858-3121 (direct)
(860) 990-5404 (cell)
(860) 652-8590 (fax)
anthony.trani@gza.com

7/10/2013

Linda - Phoenixlabs

From: Anthony Trani [Anthony.Trani@gza.com]
Sent: Wednesday, July 10, 2013 10:35 AM
To: 'linda@phoenixlabs.com'
Cc: James Hutton
Subject: Commercial Foundry Samples to run

Linda,

Can we please have the following samples taken off hold and run for PCB using manual soxhlet. *6-BD99578*
Standard TOT. The job is Commercial Foundry (43369.83)

Concrete Floor Samples

GZA ID: A-14-F-17 (0.5-1)	Phoenix ID: 99583
GZA ID: A-14-F-18 (0.5-1)	Phoenix ID: 99584
GZA ID: A-14-F-36 (0.5-1)	Phoenix ID: 99601
GZA ID: A-14-F-12 (0-0.5)	Phoenix ID: 99551
GZA ID: A-14-F-13 (0-0.5)	Phoenix ID: 99552
GZA ID: A-14-F-14 (0-0.5)	Phoenix ID: 99553
GZA ID: A-14-F-19 (0-0.5)	Phoenix ID: 99558
GZA ID: A-14-F-30 (0-0.5)	Phoenix ID: 99569
GZA ID: A-14-F-35 (0-0.5)	Phoenix ID: 99574

Soil Samples

GZA ID: A-14-S24 (0-0.25)	Phoenix ID: 00875	<i>6-BF 00861</i>
GZA ID: Ext-6 (0.25-0.5)	Phoenix ID: 00904	
GZA ID: Ext-9 (0.75-1)	Phoenix ID: 00923	
GZA ID: Ext-10 (1.75-2)	Phoenix ID: 00930	
GZA ID: Ext-10 (2.75-3)	Phoenix ID: 00931	
GZA ID: EXT-103	Phoenix ID: 99779	I sent an email yesterday requesting this but did not get a confirmation from you so I am including it again.

Can we have the following samples taken off hold and run for ETPH. Standard TOT.

Soil Samples

GZA ID: A-1-S-8 (1-2)	Phoenix ID: 99799	<i>6-BD 99791</i>
GZA ID: A-3-S-18	Phoenix ID: 01299	Note-This sample name should be change as <i>6-BD 01298</i>
follows: A-3-S-18 (2-4)		

Anthony Trani

Scientist

GZA GeoEnvironmental, Inc.
655 Winding Brook Drive, Suite 402
Glastonbury, Connecticut 06033
(860) 858-3121 (direct)
(860) 990-5404 (cell)
(860) 652-8590 (fax)
anthony.trani@gza.com

7/10/2013

Loreen - Phoenixlabs

From: Anthony Trani [Anthony.Trani@gza.com]
Sent: Monday, July 22, 2013 2:58 PM
To: Loreen - Phoenixlabs
Subject: RE: Results

Thanks,

Can you also take the following samples off hold and have them analyzed for PCBs via Soxhlet.

GZA ID: A-14-F-32	Phoenix ID: 99597
GZA ID: A-14-F-34	Phoenix ID: 99599

Anthony

-----Original Message-----

From: Loreen - Phoenixlabs [mailto:loreen@phoenixlabs.com]
Sent: Monday, July 22, 2013 2:42 PM
To: Anthony Trani
Subject: RE: Results

Anthony-

GZA ID: A14-F-12 (0.5-1)	Phoenix ID: 99578
GZA ID: A14-F-35 (0.5-1.0)	Phoenix ID: 99600
GZA ID: A-14-F-17 (0.5-1)	Phoenix ID: 99583
GZA ID: A-14-F-18 (0.5-1)	Phoenix ID: 99584
GZA ID: A-14-F-36 (0.5-1)	Phoenix ID: 99601

Were part of the email I sent earlier.....the other two samples I will check on and let you know..Loreen

-----Original Message-----

From: Anthony Trani [mailto:Anthony.Trani@gza.com]
Sent: Monday, July 22, 2013 2:20 PM
To: Loreen - Phoenixlabs
Subject: RE: Results

Thanks Loreen,

Do you know when the results for the below samples will be available (draft is okay):

GZA ID: A14-F-12 (0.5-1)	Phoenix ID: 99578
GZA ID: A14-F-35 (0.5-1.0)	Phoenix ID: 99600
GZA ID: A-14-F-17 (0.5-1)	Phoenix ID: 99583
GZA ID: A-14-F-18 (0.5-1)	Phoenix ID: 99584
GZA ID: A-14-F-36 (0.5-1)	Phoenix ID: 99601
GZA ID: A14-S-22 (0-0.25)	Phoenix ID: 00861
GZA ID: A14-S-23 (0-0.25)	Phoenix ID: 00868

Anthony



Tuesday, July 23, 2013

Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Project ID: COMMERCIAL FOUNDRY COMPANIES
Sample ID#s: BD99578, BD99583 - BD99584, BD99600 - BD99601

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller", is written over a light blue horizontal line.

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 23, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 4336982

Custody Information

Collected by: AT
Received by: LB
Analyzed by: see "By" below

Date

06/30/13
07/01/13

Time

14:35
16:15

Laboratory Data

SDG ID: GBD99578
Phoenix ID: BD99578

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: A-14-F-12 (0.5-1)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	97		%	07/15/13	JL	E160.3
Extraction for PCB	Completed			07/18/13	PP/K	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.34	mg/kg	07/19/13	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	07/19/13	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	07/19/13	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	07/19/13	AW	3540C/8082
PCB-1248	ND	0.34	mg/kg	07/19/13	AW	3540C/8082
PCB-1254	ND	0.34	mg/kg	07/19/13	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	07/19/13	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	07/19/13	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	07/19/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	96	%	07/19/13	AW	30 - 150 %
% TCMX	82	%	07/19/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
-----------	--------	------------	-------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

July 23, 2013

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 23, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 4336982

Custody Information

Collected by: AT
Received by: LB
Analyzed by: see "By" below

Date

06/30/13
07/01/13

Time

14:55
16:15

Laboratory Data

SDG ID: GBD99578
Phoenix ID: BD99583

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: A-14-F-17 (0.5-1)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	94		%	07/10/13	JL	E160.3
Extraction for PCB	Completed			07/10/13	PP/K	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.35	mg/kg	07/11/13	AW	3540C/8082
PCB-1221	ND	0.35	mg/kg	07/11/13	AW	3540C/8082
PCB-1232	ND	0.35	mg/kg	07/11/13	AW	3540C/8082
PCB-1242	ND	0.35	mg/kg	07/11/13	AW	3540C/8082
PCB-1248	0.63	0.35	mg/kg	07/11/13	AW	3540C/8082
PCB-1254	ND	0.35	mg/kg	07/11/13	AW	3540C/8082
PCB-1260	ND	0.35	mg/kg	07/11/13	AW	3540C/8082
PCB-1262	ND	0.35	mg/kg	07/11/13	AW	3540C/8082
PCB-1268	ND	0.35	mg/kg	07/11/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	101	%	07/11/13	AW	30 - 150 %
% TCMX	102	%	07/11/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
-----------	--------	------------	-------	-----------	----	-----------

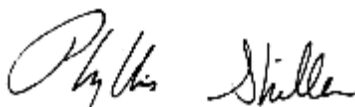
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

July 23, 2013

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 23, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 4336982

Custody Information

Collected by: AT
Received by: LB
Analyzed by: see "By" below

Date Time

06/30/13 15:00
07/01/13 16:15

Laboratory Data

SDG ID: GBD99578
Phoenix ID: BD99584

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: A-14-F-18 (0.5-1)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	96		%	07/10/13	JL	E160.3
Extraction for PCB	Completed			07/10/13	PP/K	SW3540C

PCB (Soxhlet)

PCB-1016	ND	17	mg/kg	07/15/13	AW	3540C/8082
PCB-1221	ND	17	mg/kg	07/15/13	AW	3540C/8082
PCB-1232	ND	17	mg/kg	07/15/13	AW	3540C/8082
PCB-1242	ND	17	mg/kg	07/15/13	AW	3540C/8082
PCB-1248	83	17	mg/kg	07/15/13	AW	3540C/8082
PCB-1254	ND	17	mg/kg	07/15/13	AW	3540C/8082
PCB-1260	ND	17	mg/kg	07/15/13	AW	3540C/8082
PCB-1262	ND	17	mg/kg	07/15/13	AW	3540C/8082
PCB-1268	ND	17	mg/kg	07/15/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out	%	07/15/13	AW	30 - 150 %
% TCMX	Diluted Out	%	07/15/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
-----------	--------	------------	-------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

July 23, 2013

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 23, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 4336982

Custody Information

Collected by: AT
Received by: LB
Analyzed by: see "By" below

<u>Date</u>	<u>Time</u>
06/30/13	15:55
07/01/13	16:15

Laboratory Data

SDG ID: GBD99578
Phoenix ID: BD99600

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: A-14-F-35 (0.5-1)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	95		%	07/15/13	JL	E160.3
Extraction for PCB	Completed			07/18/13	PP/K	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.34	mg/kg	07/19/13	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	07/19/13	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	07/19/13	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	07/19/13	AW	3540C/8082
PCB-1248	ND	0.34	mg/kg	07/19/13	AW	3540C/8082
PCB-1254	ND	0.34	mg/kg	07/19/13	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	07/19/13	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	07/19/13	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	07/19/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	103	%	07/19/13	AW	30 - 150 %
% TCMX	83	%	07/19/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

July 23, 2013

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 23, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 4336982

Custody Information

Collected by: AT
Received by: LB
Analyzed by: see "By" below

Date Time

06/30/13 16:25
07/01/13 16:15

Laboratory Data

SDG ID: GBD99578
Phoenix ID: BD99601

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: A-14-F-36 (0.5-1)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	95		%	07/10/13	JL	E160.3
Extraction for PCB	Completed			07/10/13	PP/K	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.34	mg/kg	07/11/13	AW	3540C/8082
PCB-1221	ND	0.34	mg/kg	07/11/13	AW	3540C/8082
PCB-1232	ND	0.34	mg/kg	07/11/13	AW	3540C/8082
PCB-1242	ND	0.34	mg/kg	07/11/13	AW	3540C/8082
PCB-1248	ND	0.34	mg/kg	07/11/13	AW	3540C/8082
PCB-1254	ND	0.34	mg/kg	07/11/13	AW	3540C/8082
PCB-1260	ND	0.34	mg/kg	07/11/13	AW	3540C/8082
PCB-1262	ND	0.34	mg/kg	07/11/13	AW	3540C/8082
PCB-1268	ND	0.34	mg/kg	07/11/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	70	%	07/11/13	AW	30 - 150 %
% TCMX	82	%	07/11/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

July 23, 2013

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

July 23, 2013

QA/QC Data

SDG I.D.: GBD99578

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 239784, QC Sample No: BD99552 (BD99583, BD99584, BD99601)									
<u>Polychlorinated Biphenyls - Solid</u>									
PCB-1016	ND	77	75	2.6	79	86	8.5	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	78	81	3.8	85	83	2.4	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	84	86	87	1.2	85	86	1.2	30 - 150	30
% TCMX (Surrogate Rec)	81	86	84	2.4	88	88	0.0	30 - 150	30
QA/QC Batch 241301, QC Sample No: BD99568 (BD99578, BD99600)									
<u>Polychlorinated Biphenyls - Solid</u>									
PCB-1016	ND	85	98	14.2	104	97	7.0	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	95	97	2.1	104	104	0.0	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	106	103	106	2.9	105	106	0.9	30 - 150	30
% TCMX (Surrogate Rec)	94	87	101	14.9	96	84	13.3	30 - 150	30

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis Shiller, Laboratory Director

July 23, 2013

Tuesday, July 23, 2013

Requested Criteria: None

State: CT

Sample Criteria Exceedences Report

GBD99578 - GZA-PCB

Page 1 of 1

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** GZA-PCB

Project Location: COMMERCIAL FOUNDRY COM **Project Number:**

Laboratory Sample ID(s): BD99578, BD99579, BD99580, BD99581, BD99582, BD99583, BD99584, BD99585, BD99586, BD99587, BD99588, BD99589, BD99590, BD99591, BD99592, BD99593, BD99594, BD99595, BD99596, BD99597, BD99598, BD99599, BD99600, BD99601

Sampling Date(s): 6/30/2013

RCP Methods Used:

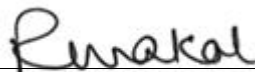
☐ 1311/1312 ☐ 6010 ☐ 7000 ☐ 7196 ☐ 7470/7471 ☐ 8081 ☐ EPH ☐ TO15
☒ 8082 ☐ 8151 ☐ 8260 ☐ 8270 ☐ ETPH ☐ 9010/9012 ☐ VPH

1.	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1a.	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1b.	EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2.	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4.	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5a.	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5b.	Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
6.	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA

Note: For all questions to which the response was "No" (with the exception of question #5a, #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized
Signature: _____



Date: Tuesday, July 23, 2013
Printed Name: Rashmi Makol
Position: Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

July 23, 2013

SDG I.D.: GBD99578

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Au-ecd1 07/11/13-1 (BD99583, BD99601)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 7/11/2013

Instrument: Au-ecd1 07/12/13-1 (BD99584)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 7/12/2013

Instrument: Au-ecd1 07/15/13-1 (BD99584)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 7/15/2013

Instrument: Au-ecd6 07/19/13-1 (BD99578, BD99600)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

July 23, 2013

SDG I.D.: GBD99578

Printed Name Adam Werner
Position: Chemist
Date: 7/19/2013

QC (Batch Specific)

----- Sample No: BD99552, QA/QC Batch: 239784 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

----- Sample No: BD99568, QA/QC Batch: 241301 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Temperature Narration

The samples were received at 6.0C with cooling initiated.
(Note acceptance criteria is above freezing up to 6°C)

Cooler: Yes ☐ No ☐
 IPK ☐ ICE ☐ N ☐

Temp °C Pg 1 of 2

CHAIN OF CUSTODY RECORD

Data Delivery:
☐ Fax #:
☒ Email: jenel.hutton@psr.com

587 East Middle Turnpike, Manchester, CT 06040
 Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726



Customer: GRCA
Address: 655 Windy Brook Dr, Suite 402
Glastonbury, CT
Project: Connecticut Family Campsite
Report to: J.M. Hutton
Invoice to: J.M. Hutton
Project P.O.: 4378881
Phone #: 860-858-3135
Fax #: 860-652-8590

Client Sample - Information - Identification
Sampler's Signature: [Signature] **Date:** 6/30/13
Matrix Code:
 DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
 SE=Sediment SL=Sludge S=Soil/Solid W=Wipe O=Other

PHOENIX USE ONLY	SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
1	99578	A-14-F-12 (0.5-1)	O	6/30/13	1435
2	99579	A-14-F-13 (0.5-1)			1440
	99580	A-14-F-14 (0.5-1)			1425
	99581	A-14-F-15 (0.5-1)			1415
	99582	A-14-F-16 (0.5-1)			1405
	99583	A-14-F-17 (0.5-1)			1455
	99584	A-14-F-18 (0.5-1)			1500
	99585	A-14-F-19 (0.5-1)			1430
	99586	A-14-F-20 (0.5-1)			1420
	99587	A-14-F-21 (0.5-1)			1410
	99588	A-14-F-23 (0.5-1)			1505
	99589	A-14-F-27 (0.5-1)	V	V	1605

Relinquished by: [Signature] **Accepted by:** [Signature]
Comments, Special Requirements or Regulations:
WAC analysis req. dir. manv. Soxhlet extraction
2. Detection limits 0.5 mg/kg
① time on for 1440
② time on for 1435

Date: 6/21/13 **Time:** 1750
7/1/13 10:00
7/1/13 16:15

Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☒ Standard
☐ Other

State where samples were collected: CT

* SURCHARGE APPLIES

Soil VOA Vial [Methanol] H2O	
GL Soil container (oz)	
40 ml VOA Vial [As is] HCl	
GL Soil container (oz)	
PL As is [250ml] [As is] [H2SO4]	
PL H2SO4 [250ml] [500ml] [1000ml]	
PL HNO3 [250ml] [500ml] [1000ml]	
PL NaOH [250ml]	
Bacterial Bottle	

MA
☐ MCP Certification
☐ GW-1
☐ GW-2
☐ GW-3
☐ S-1
☐ S-2
☐ S-3
☐ MWRA eSMART
☐ Other

CT
☒ RCP Cert
☐ GW Protection
☐ SW Protection
☐ GA Mobility
☐ GB Mobility
☐ Residential DEC
☐ IIC DEC
☐ Other

RI
☐ Direct Exposure (Residential)
☐ GW
☐ Other

Data Format
☐ Excel
☒ PDF
☐ GIS/Key*
☐ EQUIS
☐ Other

Data Package
☐ Tier II Checklist
☐ Full Data Package*
☒ Phoenix Std Report
☐ Other

* SURCHARGE APPLIES

Linda - Phoenixlabs

From: Anthony Trani [Anthony.Trani@gza.com]
Sent: Wednesday, July 10, 2013 10:35 AM
To: 'linda@phoenixlabs.com'
Cc: James Hutton
Subject: Commercial Foundry Samples to run

Linda,

Can we please have the following samples taken off hold and run for PCB using manual soxhlet. *6-BD99578*
Standard TOT. The job is Commercial Foundry (43369.83)

Concrete Floor Samples

GZA ID: A-14-F-17 (0.5-1)	Phoenix ID: 99583
GZA ID: A-14-F-18 (0.5-1)	Phoenix ID: 99584
GZA ID: A-14-F-36 (0.5-1)	Phoenix ID: 99601
GZA ID: A-14-F-12 (0-0.5)	Phoenix ID: 99551
GZA ID: A-14-F-13 (0-0.5)	Phoenix ID: 99552
GZA ID: A-14-F-14 (0-0.5)	Phoenix ID: 99553
GZA ID: A-14-F-19 (0-0.5)	Phoenix ID: 99558
GZA ID: A-14-F-30 (0-0.5)	Phoenix ID: 99569
GZA ID: A-14-F-35 (0-0.5)	Phoenix ID: 99574

Soil Samples

GZA ID: A-14-S24 (0-0.25)	Phoenix ID: 00875	<i>6BF 00861</i>
GZA ID: Ext-6 (0.25-0.5)	Phoenix ID: 00904	
GZA ID: Ext-9 (0.75-1)	Phoenix ID: 00923	
GZA ID: Ext-10 (1.75-2)	Phoenix ID: 00930	
GZA ID: Ext-10(2.75-3)	Phoenix ID: 00931	
GZA ID: EXT-103	Phoenix ID: 99779	I sent an email yesterday requesting this but did not get a confirmation from you so I am including it again.

Can we have the following samples taken off hold and run for ETPH. Standard TOT.

Soil Samples

GZA ID: A-1-S-8 (1-2)	Phoenix ID: 99799	<i>6BD99791</i>
GZA ID: A-3-S-18	Phoenix ID: 01299	Note-This sample name should be change as <i>6BD01298</i>

follows: A-3-S-18 (2-4)

Anthony Trani

Scientist

GZA GeoEnvironmental, Inc.
655 Winding Brook Drive, Suite 402
Glastonbury, Connecticut 06033
(860) 858-3121 (direct)
(860) 990-5404 (cell)
(860) 652-8590 (fax)
anthony.trani@gza.com

7/10/2013

Linda - Phoenixlabs

From: Anthony Trani [Anthony.Trani@gza.com]
Sent: Wednesday, July 10, 2013 10:35 AM
To: 'linda@phoenixlabs.com'
Cc: James Hutton
Subject: Commercial Foundry Samples to run

Linda,

Can we please have the following samples taken off hold and run for PCB using manual soxhlet. *6-BD99578*
Standard TOT. The job is Commercial Foundry (43369.83)

Concrete Floor Samples

GZA ID: A-14-F-17 (0.5-1)	Phoenix ID: 99583
GZA ID: A-14-F-18 (0.5-1)	Phoenix ID: 99584
GZA ID: A-14-F-36 (0.5-1)	Phoenix ID: 99601
GZA ID: A-14-F-12 (0-0.5)	Phoenix ID: 99551
GZA ID: A-14-F-13 (0-0.5)	Phoenix ID: 99552
GZA ID: A-14-F-14 (0-0.5)	Phoenix ID: 99553
GZA ID: A-14-F-19 (0-0.5)	Phoenix ID: 99558
GZA ID: A-14-F-30 (0-0.5)	Phoenix ID: 99569
GZA ID: A-14-F-35 (0-0.5)	Phoenix ID: 99574

Soil Samples

GZA ID: A-14-S24 (0-0.25)	Phoenix ID: 00875	<i>6-BF 00861</i>
GZA ID: Ext-6 (0.25-0.5)	Phoenix ID: 00904	
GZA ID: Ext-9 (0.75-1)	Phoenix ID: 00923	
GZA ID: Ext-10 (1.75-2)	Phoenix ID: 00930	
GZA ID: Ext-10 (2.75-3)	Phoenix ID: 00931	
GZA ID: EXT-103	Phoenix ID: 99779	I sent an email yesterday requesting this but did not get a confirmation from you so I am including it again.

Can we have the following samples taken off hold and run for ETPH. Standard TOT.

Soil Samples

GZA ID: A-1-S-8 (1-2)	Phoenix ID: 99799	<i>6-BD 99791</i>
GZA ID: A-3-S-18	Phoenix ID: 01299	Note-This sample name should be change as <i>6-BD 01298</i>
follows: A-3-S-18 (2-4)		

Anthony Trani

Scientist

GZA GeoEnvironmental, Inc.
655 Winding Brook Drive, Suite 402
Glastonbury, Connecticut 06033
(860) 858-3121 (direct)
(860) 990-5404 (cell)
(860) 652-8590 (fax)
anthony.trani@gza.com

7/10/2013

Loreen - Phoenixlabs

From: Anthony Trani [Anthony.Trani@gza.com]
Sent: Monday, July 22, 2013 2:58 PM
To: Loreen - Phoenixlabs
Subject: RE: Results

Thanks,

Can you also take the following samples off hold and have them analyzed for PCBs via Soxhlet.

GZA ID: A-14-F-32	Phoenix ID: 99597
GZA ID: A-14-F-34	Phoenix ID: 99599

Anthony

-----Original Message-----

From: Loreen - Phoenixlabs [mailto:loreen@phoenixlabs.com]
Sent: Monday, July 22, 2013 2:42 PM
To: Anthony Trani
Subject: RE: Results

Anthony-

GZA ID: A14-F-12 (0.5-1)	Phoenix ID: 99578
GZA ID: A14-F-35 (0.5-1.0)	Phoenix ID: 99600
GZA ID: A-14-F-17 (0.5-1)	Phoenix ID: 99583
GZA ID: A-14-F-18 (0.5-1)	Phoenix ID: 99584
GZA ID: A-14-F-36 (0.5-1)	Phoenix ID: 99601

Were part of the email I sent earlier.....the other two samples I will check on and let you know..Loreen

-----Original Message-----

From: Anthony Trani [mailto:Anthony.Trani@gza.com]
Sent: Monday, July 22, 2013 2:20 PM
To: Loreen - Phoenixlabs
Subject: RE: Results

Thanks Loreen,

Do you know when the results for the below samples will be available (draft is okay):

GZA ID: A14-F-12 (0.5-1)	Phoenix ID: 99578
GZA ID: A14-F-35 (0.5-1.0)	Phoenix ID: 99600
GZA ID: A-14-F-17 (0.5-1)	Phoenix ID: 99583
GZA ID: A-14-F-18 (0.5-1)	Phoenix ID: 99584
GZA ID: A-14-F-36 (0.5-1)	Phoenix ID: 99601
GZA ID: A14-S-22 (0-0.25)	Phoenix ID: 00861
GZA ID: A14-S-23 (0-0.25)	Phoenix ID: 00868

Anthony



Thursday, July 18, 2013

Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Project ID: COMMERCIAL FOUNDRY COMPANIES
Sample ID#s: BD99775

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 18, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.83

Custody Information

Collected by: AT
Received by: LB
Analyzed by: see "By" below

Date Time

07/01/13 9:30
07/01/13 16:53

Laboratory Data

SDG ID: GBD99775
Phoenix ID: BD99775

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: ORANGE 1

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	85		%	07/01/13	JL	E160.3
Extraction for PCB	Completed			07/15/13	PP/KW	SW3540C

PCB (Soxhlet)

PCB-1016	ND	4600	mg/kg	07/16/13	AW	3540C/8082
PCB-1221	ND	4600	mg/kg	07/16/13	AW	3540C/8082
PCB-1232	ND	4600	mg/kg	07/16/13	AW	3540C/8082
PCB-1242	ND	4600	mg/kg	07/16/13	AW	3540C/8082
PCB-1248	14000	4600	mg/kg	07/16/13	AW	3540C/8082
PCB-1254	ND	4600	mg/kg	07/16/13	AW	3540C/8082
PCB-1260	ND	4600	mg/kg	07/16/13	AW	3540C/8082
PCB-1262	ND	4600	mg/kg	07/16/13	AW	3540C/8082
PCB-1268	ND	4600	mg/kg	07/16/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out	%	07/16/13	AW	30 - 150 %
% TCMX	Diluted Out	%	07/16/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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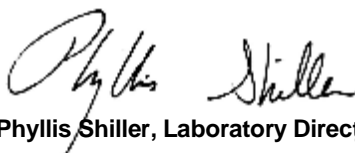
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

July 18, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



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Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

July 18, 2013

QA/QC Data

SDG I.D.: GBD99775

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 238311, QC Sample No: BD99773 (BD99775, BD99776)									
<u>Polychlorinated Biphenyls - Solid</u>									
PCB-1016	ND	85	78	8.6	89			40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	87	85	2.3	90			40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	87	84	86	2.4	88			30 - 150	30
% TCMX (Surrogate Rec)	73	85	75	12.5	83			30 - 150	30
QA/QC Batch 239530, QC Sample No: BF02718 (BD99777)									
<u>Polychlorinated Biphenyls - Solid</u>									
PCB-1016	ND	94	92	2.2	88	86	2.3	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	89	89	0.0	103	110	6.6	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	83	86	85	1.2	100	99	1.0	30 - 150	30
% TCMX (Surrogate Rec)	77	92	88	4.4	99	92	7.3	30 - 150	30

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis Shiller, Laboratory Director

July 18, 2013

Thursday, July 18, 2013

Requested Criteria: None

State: CT

Sample Criteria Exceedences Report

GBD99775 - GZA-PCB

Page 1 of 1

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
--------	-------	-----------------	----------	--------	----	----------	----------------	-------------------

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** GZA-PCB

Project Location: COMMERCIAL FOUNDRY COM **Project Number:**

Laboratory Sample ID(s): BD99775, BD99776, BD99777

Sampling Date(s): 7/1/2013

RCP Methods Used:

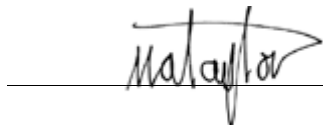
☐ 1311/1312 ☐ 6010 ☐ 7000 ☐ 7196 ☐ 7470/7471 ☐ 8081 ☐ EPH ☐ TO15
☒ 8082 ☐ 8151 ☐ 8260 ☐ 8270 ☐ ETPH ☐ 9010/9012 ☐ VPH

1.	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1a.	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1b.	EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2.	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
4.	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5a.	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5b.	Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
6.	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA

Note: For all questions to which the response was "No" (with the exception of question #5a, #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized
Signature: _____



Date: Thursday, July 18, 2013
Printed Name: Maryam Taylor
Position: Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

July 18, 2013

SDG I.D.: GBD99775

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Au-ecd1 07/08/13-1 (BD99775)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 7/8/2013

Instrument: Au-ecd3 07/16/13-1 (BD99775)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 7/16/2013

Instrument: Au-ecd5 07/10/13-1 (BD99777)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 7/10/2013

Instrument: Au-ecd6 07/05/13-1 (BD99775, BD99776)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none



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Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

July 18, 2013

SDG I.D.: GBD99775

Printed Name Adam Werner
Position: Chemist
Date: 7/5/2013

QC (Batch Specific)

----- Sample No: BD99773, QA/QC Batch: 238311 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

----- Sample No: BF02718, QA/QC Batch: 239530 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Temperature Narration

The samples were received at 7C with cooling initiated.
(Note acceptance criteria is above freezing up to 6°C)

Temp 7 °C Pg 1 of 1

CHAIN OF CUSTODY RECORD



587 East Middle Turnpike, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Customer:	GZA	Project:	Commercial Foundry Company	Project P.O.:	4326083
Address:	655 Winding Brook Drive, Suite 402	Report to:	Jim Hutton	Phone #:	880-888-3335
	Glastonbury CT	Invoice to:	Jim Hutton	Fax #:	

Client Sample - Information - Identification

Sampler's Signature Anthony Suran Date: 7/1/13

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
SE=Sediment **SL**=Sludge **S**=Soil/Solid **W**=Wipe **O**=Other

PHOENIX USE ONLY	SAMPLE #	CUSTOMER SAMPLE IDENTIFICATION	SAMPLE MATRIX	DATE SAMPLED	TIME SAMPLED
99775	Orange-1	0	7/1/13	0930	
99776	Orange-2	↓		1125	
99777	Orange-3	↓		1400	

Analysis Request

Analysis Request

[illegible][illegible]

Relinquished by:	Accepted by:	Date:	Time:	RI	CI	MA	Data Format	
Andy Smani	Maradise	7/1/13	1453	<input type="checkbox"/> Direct Exposure (Residential) <input type="checkbox"/> GW <input type="checkbox"/> Other	<input checked="" type="checkbox"/> RCP Cert <input type="checkbox"/> GW Protection <input type="checkbox"/> SW Protection <input type="checkbox"/> GA Mobility	<input type="checkbox"/> MCP Certification <input type="checkbox"/> GW-1 <input type="checkbox"/> GW-2 <input type="checkbox"/> GW-3 <input type="checkbox"/> S-1 <input type="checkbox"/> S-2 <input type="checkbox"/> S-3 <input type="checkbox"/> MWRA eSMART <input type="checkbox"/> Other	<input type="checkbox"/> Excel <input checked="" type="checkbox"/> PDF <input type="checkbox"/> GIS/Key <input type="checkbox"/> EQuIS <input type="checkbox"/> Other	
Comments, Special Requirements or Regulations: 1. Manual Soxhlet extraction 2. Detection limits = 0.5 mg/kg				Turnaround: <input type="checkbox"/> 1 Day* <input type="checkbox"/> 2 Days* <input type="checkbox"/> 3 Days* <input checked="" type="checkbox"/> Standard				<input type="checkbox"/> Tier II Checklist* <input checked="" type="checkbox"/> Full Data Package* <input checked="" type="checkbox"/> Phoenix Std Report <input type="checkbox"/> Other

State where samples were collected: CT

*** SURCHARGE APPLIES**

Linda - Phoenixlabs

From: Anthony Trani [Anthony.Trani@gza.com]

Sent: Tuesday, July 09, 2013 1:19 PM

To: 'linda@phoenixlabs.com'

Subject: CFC sample analysis

Linda,

We would like to analyze the following sample that we had placed on hold for PCBs using manual soxhlet. Standard TOT

Project: Commercial Foundry Companies (43369.83)

Sample: Orange-3 collected on 7/1/2013 with phoenix id 99777.

Thanks
Anthony

Anthony Trani
Scientist

GZA GeoEnvironmental, Inc.
655 Winding Brook Drive, Suite 402
Glastonbury, Connecticut 06033
(860) 858-3121 (direct)
(860) 990-5404 (cell)
(860) 652-8590 (fax)
anthony.trani@gza.com



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For information about GZA GeoEnvironmental, Inc. and its services, please visit our website at www.gza.com.

7/9/2013



Friday, July 12, 2013

Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Project ID: COMMERCIAL FOUNDRY COMPANIES
Sample ID#s: BD99775 - BD99777

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 12, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.83

Custody Information

Collected by: AT
Received by: LB
Analyzed by: see "By" below

<u>Date</u>	<u>Time</u>
07/01/13	9:30
07/01/13	16:53

Laboratory Data

SDG ID: GBD99775
Phoenix ID: BD99775

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: ORANGE 1

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	85		%	07/01/13	JL	E160.3
Extraction for PCB	Completed			07/01/13	PP/HB/K	SW3540C

PCB (Soxhlet)

PCB-1016	ND	25000	mg/kg	07/08/13	AW	3540C/8082
PCB-1221	ND	25000	mg/kg	07/08/13	AW	3540C/8082
PCB-1232	ND	25000	mg/kg	07/08/13	AW	3540C/8082
PCB-1242	ND	25000	mg/kg	07/08/13	AW	3540C/8082
PCB-1248	37000	25000	mg/kg	07/08/13	AW	3540C/8082
PCB-1254	ND	25000	mg/kg	07/08/13	AW	3540C/8082
PCB-1260	ND	25000	mg/kg	07/08/13	AW	3540C/8082
PCB-1262	ND	25000	mg/kg	07/08/13	AW	3540C/8082
PCB-1268	ND	25000	mg/kg	07/08/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out	%	07/08/13	AW	30 - 150 %
% TCMX	Diluted Out	%	07/08/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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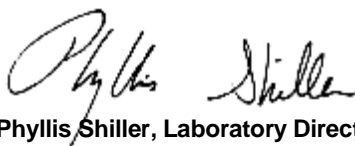
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

July 12, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 12, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.83

Custody Information

Collected by: AT
Received by: LB
Analyzed by: see "By" below

Date Time

07/01/13 11:25
07/01/13 16:53

Laboratory Data

SDG ID: GBD99775
Phoenix ID: BD99776

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: ORANGE 2

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	83		%	07/01/13	JL	E160.3
Extraction for PCB	Completed			07/01/13	PP/HB/K	SW3540C

PCB (Soxhlet)

PCB-1016	ND	9.6	mg/kg	07/05/13	AW	3540C/8082
PCB-1221	ND	9.6	mg/kg	07/05/13	AW	3540C/8082
PCB-1232	ND	9.6	mg/kg	07/05/13	AW	3540C/8082
PCB-1242	ND	9.6	mg/kg	07/05/13	AW	3540C/8082
PCB-1248	110	9.6	mg/kg	07/05/13	AW	3540C/8082
PCB-1254	ND	9.6	mg/kg	07/05/13	AW	3540C/8082
PCB-1260	ND	9.6	mg/kg	07/05/13	AW	3540C/8082
PCB-1262	ND	9.6	mg/kg	07/05/13	AW	3540C/8082
PCB-1268	ND	9.6	mg/kg	07/05/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out	%	07/05/13	AW	30 - 150 %
% TCMX	Diluted Out	%	07/05/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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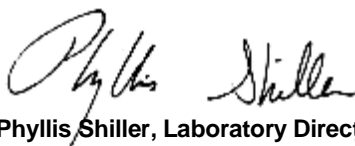
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

July 12, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 12, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.83

Custody Information

Collected by: AT
Received by: LB
Analyzed by: see "By" below

<u>Date</u>	<u>Time</u>
07/01/13	14:00
07/01/13	16:53

Laboratory Data

SDG ID: GBD99775
Phoenix ID: BD99777

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: ORANGE 3

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	07/10/13	LB	E160.3
Extraction for PCB	Completed			07/09/13	PP/HB	SW3540C

PCB (Soxhlet)

PCB-1016	ND	1.6	mg/kg	07/10/13	AW	3540C/8082
PCB-1221	ND	1.6	mg/kg	07/10/13	AW	3540C/8082
PCB-1232	ND	1.6	mg/kg	07/10/13	AW	3540C/8082
PCB-1242	ND	1.6	mg/kg	07/10/13	AW	3540C/8082
PCB-1248	19	1.6	mg/kg	07/10/13	AW	3540C/8082
PCB-1254	ND	1.6	mg/kg	07/10/13	AW	3540C/8082
PCB-1260	ND	1.6	mg/kg	07/10/13	AW	3540C/8082
PCB-1262	ND	1.6	mg/kg	07/10/13	AW	3540C/8082
PCB-1268	ND	1.6	mg/kg	07/10/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	75	%	07/10/13	AW	30 - 150 %
% TCMX	48	%	07/10/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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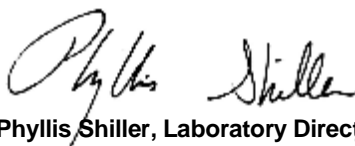
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

July 12, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

July 12, 2013

QA/QC Data

SDG I.D.: GBD99775

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 238311, QC Sample No: BD99773 (BD99775, BD99776)									
<u>Polychlorinated Biphenyls - Solid</u>									
PCB-1016	ND	85	78	8.6	89			40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	87	85	2.3	90			40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	87	84	86	2.4	88			30 - 150	30
% TCMX (Surrogate Rec)	73	85	75	12.5	83			30 - 150	30
QA/QC Batch 239530, QC Sample No: BF02718 (BD99777)									
<u>Polychlorinated Biphenyls - Solid</u>									
PCB-1016	ND	94	92	2.2	88	86	2.3	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	89	89	0.0	103	110	6.6	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	83	86	85	1.2	100	99	1.0	30 - 150	30
% TCMX (Surrogate Rec)	77	92	88	4.4	99	92	7.3	30 - 150	30

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis Shiller, Laboratory Director

July 12, 2013

Friday, July 12, 2013

Requested Criteria: None

State: CT

Sample Criteria Exceedences Report

GBD99775 - GZA-PCB

Page 1 of 1

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** GZA-PCB

Project Location: COMMERCIAL FOUNDRY COM **Project Number:**

Laboratory Sample ID(s): BD99775, BD99776, BD99777

Sampling Date(s): 7/1/2013

RCP Methods Used:

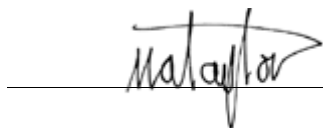
☐ 1311/1312 ☐ 6010 ☐ 7000 ☐ 7196 ☐ 7470/7471 ☐ 8081 ☐ EPH ☐ TO15
☒ 8082 ☐ 8151 ☐ 8260 ☐ 8270 ☐ ETPH ☐ 9010/9012 ☐ VPH

1.	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1a.	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1b.	EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2.	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
4.	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5a.	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5b.	Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
6.	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA

Note: For all questions to which the response was "No" (with the exception of question #5a, #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized
Signature: _____



Date: Friday, July 12, 2013
Printed Name: Maryam Taylor
Position: Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

July 12, 2013

SDG ID.: GBD99775

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Au-ecd1 07/08/13-1 (BD99775)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 7/8/2013

Instrument: Au-ecd5 07/10/13-1 (BD99777)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 7/10/2013

Instrument: Au-ecd6 07/05/13-1 (BD99775, BD99776)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 7/5/2013



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Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

July 12, 2013

SDG I.D.: GBD99775

QC (Batch Specific)

----- Sample No: BD99773, QA/QC Batch: 238311 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

----- Sample No: BF02718, QA/QC Batch: 239530 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Temperature Narration

The samples were received at 7C with cooling initiated.
(Note acceptance criteria is above freezing up to 6°C)

Temp 7 °C Pg 1 of 1

CHAIN OF CUSTODY RECORD



587 East Middle Turnpike, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Customer:	GZA	Project:	Commercial Foundry Company	Project P.O.:	4326083
Address:	655 Winding Brook Drive, Suite 402	Report to:	Jim Hutton	Phone #:	800-888-3355
	Glendale, CA	Invoice to:	Jim Hutton	Fax #:	

Client Sample - Information - Identification

Sampler's Signature Anthony Suran Date: 7/1/13

Matrix Code:
DW=Drinking Water **GW**=Ground Water **SW**=Surface Water **WW**=Waste Water
SE=Sediment **SL**=Sludge **S**=Soil/Solid **W**=Wipe **O**=Other

PHOENIX USE ONLY	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
99775	Orange-1	0	7/1/13	0930
99776	Orange-2	↓		1125
99777	Orange-3	↓	↓	1400

Analysis Request

Analysis Request

Soil VOA Vials (GL Soil container	40 ml VOA Vial	GL Amber 1000ml	PL As is (PL H ₂ SO ₄ [PL HNO ₃ 250ml	PL NaOH 250ml	Bacteria Bottle
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[illegible][illegible][illegible]

Relinquished by:	Accepted by:	Date:	Time:	RI	CI	MA	Data Format
Andy Stransi	Okmaduse	7/1/13	1453	<input type="checkbox"/> Direct Exposure (Residential) <input type="checkbox"/> GW <input type="checkbox"/> Other	<input checked="" type="checkbox"/> RCP Cert <input type="checkbox"/> GW Protection <input type="checkbox"/> SW Protection <input type="checkbox"/> CA Mobile:	<input type="checkbox"/> MCP Certification <input type="checkbox"/> GW-1 <input type="checkbox"/> GW-2 <input type="checkbox"/> GW-3	<input type="checkbox"/> Excel <input checked="" type="checkbox"/> PDF <input type="checkbox"/> GIS/Key <input type="checkbox"/> EQUIS

Comments, Special Requirements or Regulations:	Turnaround:	GA Mobility	S-1	Other
1. Manual Soxhlet extraction	<input type="checkbox"/> 1 Day*	<input type="checkbox"/> GB Mobility	<input type="checkbox"/> S-1	<input type="checkbox"/> Other
2. Detection limits = 0.5 mg/kg	<input type="checkbox"/> 2 Days*	<input type="checkbox"/> Residential DEC	<input type="checkbox"/> S-2	<input type="checkbox"/> Tier II Checklist*
	<input type="checkbox"/> 3 Days*	<input type="checkbox"/> I/C DEC	<input type="checkbox"/> S-3	<input checked="" type="checkbox"/> Full Data Package*
	<input checked="" type="checkbox"/> Standard	<input type="checkbox"/> Other	<input type="checkbox"/> MWRA eSMART	<input checked="" type="checkbox"/> Phoenix Std Report
			<input type="checkbox"/> Other	<input type="checkbox"/> Other

State where samples were collected:	CT
* SURCHARGE APPLIES	

* SURCHARGE APPLIES

Linda - Phoenixlabs

From: Anthony Trani [Anthony.Trani@gza.com]

Sent: Tuesday, July 09, 2013 1:19 PM

To: 'linda@phoenixlabs.com'

Subject: CFC sample analysis

Linda,

We would like to analyze the following sample that we had placed on hold for PCBs using manual soxhlet. Standard TOT

Project: Commercial Foundry Companies (43369.83)

Sample: Orange-3 collected on 7/1/2013 with phoenix id 99777.

Thanks
Anthony

Anthony Trani
Scientist

GZA GeoEnvironmental, Inc.
655 Winding Brook Drive, Suite 402
Glastonbury, Connecticut 06033
(860) 858-3121 (direct)
(860) 990-5404 (cell)
(860) 652-8590 (fax)
anthony.trani@gza.com



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For information about GZA GeoEnvironmental, Inc. and its services, please visit our website at www.gza.com.

7/9/2013



Monday, July 15, 2013

Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Project ID: COMMERCIAL FOUNDRY COMPANIES
Sample ID#s: BD99778 - BD99779

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 15, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 4336983

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

07/01/13 13:40
07/01/13 16:53

Laboratory Data

SDG ID: GBD99778
Phoenix ID: BD99778

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: EXT-102

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	84		%	07/01/13	JL	E160.3
Extraction for PCB	Completed			07/01/13	PP/HB/K	SW3540C

PCB (Soxhlet)

PCB-1016	ND	3.9	mg/kg	07/05/13	AW	3540C/8082
PCB-1221	ND	3.9	mg/kg	07/05/13	AW	3540C/8082
PCB-1232	ND	3.9	mg/kg	07/05/13	AW	3540C/8082
PCB-1242	ND	3.9	mg/kg	07/05/13	AW	3540C/8082
PCB-1248	30	3.9	mg/kg	07/05/13	AW	3540C/8082
PCB-1254	ND	3.9	mg/kg	07/05/13	AW	3540C/8082
PCB-1260	ND	3.9	mg/kg	07/05/13	AW	3540C/8082
PCB-1262	ND	3.9	mg/kg	07/05/13	AW	3540C/8082
PCB-1268	ND	3.9	mg/kg	07/05/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out	%	07/05/13	AW	30 - 150 %
% TCMX	Diluted Out	%	07/05/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

July 15, 2013

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 15, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 4336983

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

07/01/13 14:10
07/01/13 16:53

Laboratory Data

SDG ID: GBD99778
Phoenix ID: BD99779

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: EXT-103

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	82		%	07/10/13	JL	E160.3
Extraction for PCB	Completed			07/10/13	PP/K	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.4	mg/kg	07/11/13	AW	3540C/8082
PCB-1221	ND	0.4	mg/kg	07/11/13	AW	3540C/8082
PCB-1232	ND	0.4	mg/kg	07/11/13	AW	3540C/8082
PCB-1242	ND	0.4	mg/kg	07/11/13	AW	3540C/8082
PCB-1248	ND	0.4	mg/kg	07/11/13	AW	3540C/8082
PCB-1254	ND	0.4	mg/kg	07/11/13	AW	3540C/8082
PCB-1260	ND	0.4	mg/kg	07/11/13	AW	3540C/8082
PCB-1262	ND	0.4	mg/kg	07/11/13	AW	3540C/8082
PCB-1268	ND	0.4	mg/kg	07/11/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	70	%	07/11/13	AW	30 - 150 %
% TCMX	92	%	07/11/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
-----------	--------	------------	-------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

July 15, 2013

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

July 15, 2013

QA/QC Data

SDG I.D.: GBD99778

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 239784, QC Sample No: BD99552 (BD99779)									
<u>Polychlorinated Biphenyls - Solid</u>									
PCB-1016	ND	77	75	2.6	79	86	8.5	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	78	81	3.8	85	83	2.4	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	84	86	87	1.2	85	86	1.2	30 - 150	30
% TCMX (Surrogate Rec)	81	86	84	2.4	88	88	0.0	30 - 150	30
QA/QC Batch 238311, QC Sample No: BD99773 (BD99778)									
<u>Polychlorinated Biphenyls - Solid</u>									
PCB-1016	ND	85	78	8.6	89			40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	87	85	2.3	90			40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	87	84	86	2.4	88			30 - 150	30
% TCMX (Surrogate Rec)	73	85	75	12.5	83			30 - 150	30

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis Shiller, Laboratory Director

July 15, 2013

Monday, July 15, 2013

Requested Criteria: None

State: CT

Sample Criteria Exceedences Report

GBD99778 - GZA-PCB

Page 1 of 1

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** GZA-PCB

Project Location: COMMERCIAL FOUNDRY COM **Project Number:**

Laboratory Sample ID(s): BD99778, BD99779

Sampling Date(s): 7/1/2013

RCP Methods Used:

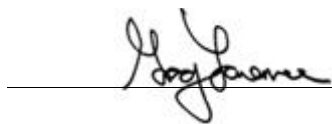
☐ 1311/1312 ☐ 6010 ☐ 7000 ☐ 7196 ☐ 7470/7471 ☐ 8081 ☐ EPH ☐ TO15
☒ 8082 ☐ 8151 ☐ 8260 ☐ 8270 ☐ ETPH ☐ 9010/9012 ☐ VPH

1.	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1a.	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1b.	EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2.	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
4.	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5a.	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5b.	Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
6.	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA

Note: For all questions to which the response was "No" (with the exception of question #5a, #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized
Signature: _____



Date: Monday, July 15, 2013
Printed Name: Greg Lawrence
Position: Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

July 15, 2013

SDG ID.: GBD99778

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Au-ecd1 07/11/13-1 (BD99779)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner

Position: Chemist

Date: 7/11/2013

Instrument: Au-ecd6 07/05/13-1 (BD99778)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner

Position: Chemist

Date: 7/5/2013

QC (Batch Specific)

----- Sample No: BD99552, QA/QC Batch: 239784 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

----- Sample No: BD99773, QA/QC Batch: 238311 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Temperature Narration



Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

July 15, 2013

SDG LD.: GBD99778

The samples were received at 7C with cooling initiated.
(Note acceptance criteria is above freezing up to 6°C)



Monday, July 15, 2013

**Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033**

**Project ID: CFC 05.0043369.83
Sample ID#s: BF00875**

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

**Phyllis Shiller
Laboratory Director**

**NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B**

**NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301**



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 15, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

07/02/13 11:23
07/03/13 14:17

Laboratory Data

SDG ID: GBF00861
Phoenix ID: BF00875

Project ID: CFC 05.0043369.83
Client ID: A14-S-24 0-0.25

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	94		%	07/10/13	JL	E160.3
Extraction for PCB	Completed			07/10/13	PP/K	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.35	mg/kg	07/11/13	AW	3540C/8082
PCB-1221	ND	0.35	mg/kg	07/11/13	AW	3540C/8082
PCB-1232	ND	0.35	mg/kg	07/11/13	AW	3540C/8082
PCB-1242	ND	0.35	mg/kg	07/11/13	AW	3540C/8082
PCB-1248	ND	0.35	mg/kg	07/11/13	AW	3540C/8082
PCB-1254	ND	0.35	mg/kg	07/11/13	AW	3540C/8082
PCB-1260	ND	0.35	mg/kg	07/11/13	AW	3540C/8082
PCB-1262	ND	0.35	mg/kg	07/11/13	AW	3540C/8082
PCB-1268	ND	0.35	mg/kg	07/11/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	66	%	07/11/13	AW	30 - 150 %
% TCMX	66	%	07/11/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
-----------	--------	------------	-------	-----------	----	-----------

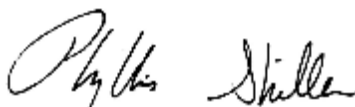
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

July 15, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

July 15, 2013

QA/QC Data

SDG I.D.: GBF00861

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 239810, QC Sample No: BF00875 (BF00875)									
<u>Polychlorinated Biphenyls - Soil</u>									
PCB-1016	ND	75	83	10.1	70	74	5.6	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	80	83	3.7	78	79	1.3	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	96	90	94	4.3	88	88	0.0	30 - 150	30
% TCMX (Surrogate Rec)	82	80	85	6.1	73	76	4.0	30 - 150	30

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis Shiller, Laboratory Director
July 15, 2013

Monday, July 15, 2013

Requested Criteria: None

State: CT

Sample Criteria Exceedences Report

GBF00861 - GZA-PCB

Page 1 of 1

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
--------	-------	-----------------	----------	--------	----	----------	----------------	-------------------

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** GZA-PCB

Project Location: CFC 05.0043369.83 **Project Number:**

Laboratory Sample ID(s): BF00861, BF00862, BF00863, BF00864, BF00865, BF00866, BF00867, BF00868, BF00869, BF00870, BF00871, BF00872, BF00873, BF00874, BF00875, BF00876, BF00877, BF00878, BF00879, BF00880, BF00881, BF00882, BF00883, BF00884

Sampling Date(s): 7/2/2013

RCP Methods Used:

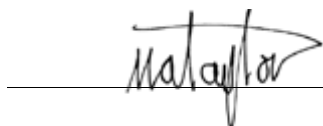
☐ 1311/1312 ☐ 6010 ☐ 7000 ☐ 7196 ☐ 7470/7471 ☐ 8081 ☐ EPH ☐ TO15
☒ 8082 ☐ 8151 ☐ 8260 ☐ 8270 ☐ ETPH ☐ 9010/9012 ☐ VPH

1.	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1a.	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1b.	EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2.	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4.	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5a.	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5b.	Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
6.	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

Note: For all questions to which the response was "No" (with the exception of question #5a, #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized
Signature: _____



Date: Monday, July 15, 2013
Printed Name: Maryam Taylor
Position: Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

July 15, 2013

SDG ID.: GBF00861

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Au-ecd1 07/11/13-1 (BF00875)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 7/11/2013

Instrument: Au-ecd3 07/11/13-1 (BF00875)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 7/11/2013

QC (Site Specific)

----- Sample No: BF00875, QA/QC Batch: 239810 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 40 - 140 with the following exceptions: None.

All MSD recoveries were within 40 - 140 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: None.

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

Temperature Narration



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

July 15, 2013

SDG LD.: GBF00861

The samples in this delivery group were received at 6°C.
(Note acceptance criteria is above freezing up to 6°C)

Cooler: Yes ☒ No ☐
Coolant: IPK ☒ ICE ☐ N ☐

Temp 6 °C Pg 1 of 4

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726



Customer: G2A

Address: 655 Winding Brook Drive
Gloucester CT 06033

Project: CEC 05.004369.83

Report to: James Horton

Invoice to: G2A

Project P.O.:

Phone #: 860 246 8800

Fax #:

Data Delivery:

☐ Fax #:

☒ Email: james.horton@ceca.com

Client Sample - Information Identification

Sampler's Signature

Date: 7/2/13

Matrix Code:

DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
SE=Sediment SL=Sludge S=Soil/Solid W=Wipe O=Other

PHOENIX USE ONLY

SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
008601	A14-S-22 (0-0.25)	S	7/2/13	1154
008602	A14-S-22 (0.25-0.5)			1157
008603	A14-S-22 (0.5-0.75)			1158
008604	A14-S-22 (0.75-1.0)			1159
008605	A14-S-22 (1.75-2.0)			1200
008606	A14-S-22 (2.75-3.0)			1202
008607	A14-S-22 (3.75-4.0)			1203
008608	A14-S-23 (0-0.25)			1210
008609	A14-S-23 (0.25-0.5)			1210
008670	A14-S-23 (0.5-0.75)			1211
008671	A14-S-23 (0.75-1.0)			1212
008672	A14-S-23 (1.75-2.0)			1214

Relinquished by: Andrew S. C.

Accepted by: Andrew S. C.

Comments, Special Requirements or Regulations:

Place Freeze Samples on hold

Detection Limit 0.5 ppm

T. Groundwater

7/2/13 1415

7/2/13 1110

7/2/13 1417

Turnaround:

☐ 1 Day*

☐ 2 Days*

☐ 3 Days*

☒ Standard

☐ Other

* SURCHARGE APPLIES

State where samples were collected: CT

* SURCHARGE APPLIES

Analysis Request

PCBs - Monte Solvent Extraction

Soil VOA Vials

GL Soil container (1000ml) H2O

GL Soil container (1000ml) HCl

GL Soil container (1000ml) H2SO4

GL Soil container (1000ml) H2SO4

GL Soil container (1000ml) H2SO4

GL Soil container (1000ml) H2SO4

GL Soil container (1000ml) H2SO4

GL Soil container (1000ml) H2SO4

GL Soil container (1000ml) H2SO4

GL Soil container (1000ml) H2SO4

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GL Soil container (1000ml) H2SO4

GL Soil container (1000ml) H2SO4

GL Soil container (1000ml) H2SO4

GL Soil container (1000ml) H2SO4

Cooler: Yes ☐ No ☐
Coolant: IPK ☐ ICE ☐ N ☐

CHAIN OF CUSTODY RECORD

Temp 6°C Pg 2 of 4

Data Delivery:

☐ Fax #:

587 East Middle Turnpike, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Email: James.Hutton@phoenixlabs.com

Customer: G-245 Project: CES 05.0043369.83
Address: 655 Winding Brook Drive Report to: James Hutton
Charltonbury CT 06033 Invoice to: G-245

Client Sample - Information - Identification

Sampler's Signature

[Signature]

Date: 7/2/13

Matrix Code:

DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
SE=Sediment SL=Sludge S=Soil/Solid W=Wipe O=Other

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
00873	A14-S-23 (2.75-3.0)	S	7/2/13	1217
00874	A14-S-23 (3.75-4.0)			1219
00875	A14-S-24 (0-0.25)			1123
00876	A14-S-24 (0.25-0.5)			1124
00877	A14-S-24 (0.5-0.75)			1125
00878	A14-S-24 (0.75-1.0)			1126
00879	A14-S-24 (1.75-2.0)			1127
00880	A14-S-24 (2.75-3.0)			1127
00881	A14-S-24 (3.75-4.0)			1128
00882	A14-S-25 (0-0.25)			1144
00883	A14-S-25 (0.25-0.5)			1145
00884	A14-S-25 (0.5-0.75)			1146

Relinquished by:

Accepted by:

[Signature]

Date:

Time:

7/2/13 1415

7-2-13 1110

7-3-13 1417

Turnaround:

☐ 1 Day*

☐ 2 Days*

☐ 3 Days*

☒ Standard

☐ Other

* SURCHARGE APPLIES

State where samples were collected:

CT

* SURCHARGE APPLIES

Comments, Special Requirements or Regulations:

• Freeze Samples on hold

• Detection Limit 0.5 ppm

MA

CT

RI

Direct Exposure (Residential)

GW

Other

RCP Cert

GW Protection

SW Protection

GA Mobility

GB Mobility

Residential DEC

I/C DEC

Other

MCP Certification

GW-1

GW-2

GW-3

S-1

S-2

S-3

MWRA eSMART

Other

Data Format

Excel

PDF

GIS/Key

EQUIS

Other

Data Package

Tier II Checklist

Full Data Package*

Phoenix Std Report

Other

* SURCHARGE APPLIES

Linda - Phoenixlabs

From: Anthony Trani [Anthony.Trani@gza.com]
Sent: Wednesday, July 10, 2013 10:35 AM
To: 'linda@phoenixlabs.com'
Cc: James Hutton
Subject: Commercial Foundry Samples to run

Linda,

Can we please have the following samples taken off hold and run for PCB using manual soxhlet. *6-BD99578*
 Standard TOT. The job is Commercial Foundry (43369.83)

Concrete Floor Samples

GZA ID: A-14-F-17 (0.5-1)	Phoenix ID: 99583
GZA ID: A-14-F-18 (0.5-1)	Phoenix ID: 99584
GZA ID: A-14-F-36 (0.5-1)	Phoenix ID: 99601
GZA ID: A-14-F-12 (0-0.5)	Phoenix ID: 99551
GZA ID: A-14-F-13 (0-0.5)	Phoenix ID: 99552
GZA ID: A-14-F-14 (0-0.5)	Phoenix ID: 99553
GZA ID: A-14-F-19 (0-0.5)	Phoenix ID: 99558
GZA ID: A-14-F-30 (0-0.5)	Phoenix ID: 99569
GZA ID: A-14-F-35 (0-0.5)	Phoenix ID: 99574

Soil Samples

GZA ID: A-14-S24 (0-0.25)	Phoenix ID: 00875	<i>6BF00861</i>
GZA ID: Ext-6 (0.25-0.5)	Phoenix ID: 00904	
GZA ID: Ext-9 (0.75-1)	Phoenix ID: 00923	
GZA ID: Ext-10 (1.75-2)	Phoenix ID: 00930	
GZA ID: Ext-10(2.75-3)	Phoenix ID: 00931	
GZA ID: EXT-103	Phoenix ID: 99779, I sent an email yesterday requesting this but did not get a confirmation from you so I am including it again.	

Can we have the following samples taken off hold and run for ETPH. Standard TOT.

Soil Samples

GZA ID: A-1-S-8 (1-2)	Phoenix ID: 99799	<i>6BD99791</i>
GZA ID: A-3-S-18	Phoenix ID: 01299	Note-This sample name should be change as <i>6BD01298</i>
follows: A-3-S-18 (2-4)		

Anthony Trani
Scientist

GZA GeoEnvironmental, Inc.
 655 Winding Brook Drive, Suite 402
 Glastonbury, Connecticut 06033
 (860) 858-3121 (direct)
 (860) 990-5404 (cell)
 (860) 652-8590 (fax)
anthony.trani@gza.com

7/10/2013



Tuesday, July 23, 2013

Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Project ID: CFC 05.0043369.83
Sample ID#s: BF00861, BF00868

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 23, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

07/02/13 11:57
07/03/13 14:17

Laboratory Data

SDG ID: GBF00861
Phoenix ID: BF00861

Project ID: CFC 05.0043369.83
Client ID: A14-S-22 0-0.25

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	91		%	07/15/13	JL	E160.3
Extraction for PCB	Completed			07/18/13	PP/K	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.36	mg/kg	07/19/13	AW	3540C/8082
PCB-1221	ND	0.36	mg/kg	07/19/13	AW	3540C/8082
PCB-1232	ND	0.36	mg/kg	07/19/13	AW	3540C/8082
PCB-1242	ND	0.36	mg/kg	07/19/13	AW	3540C/8082
PCB-1248	ND	0.36	mg/kg	07/19/13	AW	3540C/8082
PCB-1254	ND	0.36	mg/kg	07/19/13	AW	3540C/8082
PCB-1260	ND	0.36	mg/kg	07/19/13	AW	3540C/8082
PCB-1262	ND	0.36	mg/kg	07/19/13	AW	3540C/8082
PCB-1268	ND	0.36	mg/kg	07/19/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	104	%	07/19/13	AW	30 - 150 %
% TCMX	89	%	07/19/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
-----------	--------	------------	-------	-----------	----	-----------

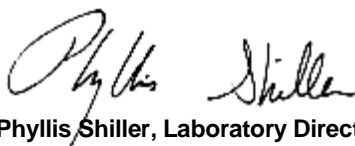
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

July 23, 2013

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 23, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: LB
Analyzed by: see "By" below

Date Time

07/02/13 12:10
07/03/13 14:17

Laboratory Data

SDG ID: GBF00861
Phoenix ID: BF00868

Project ID: CFC 05.0043369.83
Client ID: A14-S-23 0-0.25

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	91		%	07/15/13	JL	E160.3
Extraction for PCB	Completed			07/18/13	PP/K	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.36	mg/kg	07/19/13	AW	3540C/8082
PCB-1221	ND	0.36	mg/kg	07/19/13	AW	3540C/8082
PCB-1232	ND	0.36	mg/kg	07/19/13	AW	3540C/8082
PCB-1242	ND	0.36	mg/kg	07/19/13	AW	3540C/8082
PCB-1248	ND	0.36	mg/kg	07/19/13	AW	3540C/8082
PCB-1254	ND	0.36	mg/kg	07/19/13	AW	3540C/8082
PCB-1260	ND	0.36	mg/kg	07/19/13	AW	3540C/8082
PCB-1262	ND	0.36	mg/kg	07/19/13	AW	3540C/8082
PCB-1268	ND	0.36	mg/kg	07/19/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	98	%	07/19/13	AW	30 - 150 %
% TCMX	87	%	07/19/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
-----------	--------	------------	-------	-----------	----	-----------

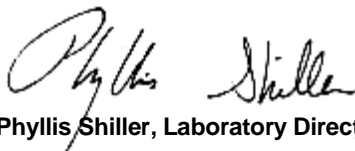
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

July 23, 2013

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

July 23, 2013

QA/QC Data

SDG I.D.: GBF00861

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 241301, QC Sample No: BD99568 (BF00861, BF00868)									
<u>Polychlorinated Biphenyls - Soil</u>									
PCB-1016	ND	85	98	14.2	104	97	7.0	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	95	97	2.1	104	104	0.0	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	106	103	106	2.9	105	106	0.9	30 - 150	30
% TCMX (Surrogate Rec)	94	87	101	14.9	96	84	13.3	30 - 150	30
QA/QC Batch 239810, QC Sample No: BF00875 (BF00875)									
<u>Polychlorinated Biphenyls - Soil</u>									
PCB-1016	ND	75	83	10.1	70	74	5.6	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	80	83	3.7	78	79	1.3	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	96	90	94	4.3	88	88	0.0	30 - 150	30
% TCMX (Surrogate Rec)	82	80	85	6.1	73	76	4.0	30 - 150	30

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis Shiller, Laboratory Director

July 23, 2013

Tuesday, July 23, 2013

Requested Criteria: None

State: CT

Sample Criteria Exceedences Report

GBF00861 - GZA-PCB

Page 1 of 1

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
--------	-------	-----------------	----------	--------	----	----------	----------------	-------------------

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** GZA-PCB

Project Location: CFC 05.0043369.83 **Project Number:**

Laboratory Sample ID(s): BF00861, BF00862, BF00863, BF00864, BF00865, BF00866, BF00867, BF00868, BF00869, BF00870, BF00871, BF00872, BF00873, BF00874, BF00875, BF00876, BF00877, BF00878, BF00879, BF00880, BF00881, BF00882, BF00883, BF00884

Sampling Date(s): 7/2/2013

RCP Methods Used:

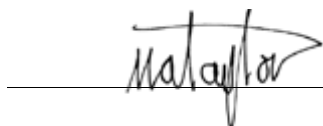
☐ 1311/1312 ☐ 6010 ☐ 7000 ☐ 7196 ☐ 7470/7471 ☐ 8081 ☐ EPH ☐ TO15
☒ 8082 ☐ 8151 ☐ 8260 ☐ 8270 ☐ ETPH ☐ 9010/9012 ☐ VPH

1.	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1a.	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1b.	EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2.	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4.	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5a.	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5b.	Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
6.	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

Note: For all questions to which the response was "No" (with the exception of question #5a, #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized
Signature: _____



Date: Tuesday, July 23, 2013
Printed Name: Maryam Taylor
Position: Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

July 23, 2013

SDG ID.: GBF00861

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Au-ecd1 07/11/13-1 (BF00875)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 7/11/2013

Instrument: Au-ecd3 07/11/13-1 (BF00875)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 7/11/2013

Instrument: Au-ecd6 07/19/13-1 (BF00861, BF00868)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 7/19/2013



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

July 23, 2013

SDG ID.: GBF00861

QC (Site Specific)

----- Sample No: BF00875, QA/QC Batch: 239810 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 40 - 140 with the following exceptions: None.

All MSD recoveries were within 40 - 140 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: None.

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

QC (Batch Specific)

----- Sample No: BD99568, QA/QC Batch: 241301 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Temperature Narration

The samples in this delivery group were received at 6°C.

(Note acceptance criteria is above freezing up to 6°C)

Cooler: Yes ☒ No ☐
Coolant: IPK ☒ ICE ☐ N ☐

Temp 6 °C Pg 1 of 4

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726



Customer: G2A

Address: 655 Winding Brook Drive
Glensbury CT 06033

Project: CEC 05.004369.83

Report to: James Horton

Invoice to: G2A

Project P.O.:

Phone #: 860 246 8800

Fax #:

Data Delivery:

☐ Fax #:

☒ Email: james.horton@ceca.com

Client Sample - Information Identification

Sampler's Signature

Date: 7/2/13

Matrix Code:

DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
SE=Sediment SL=Sludge S=Soil/Solid W=Wipe O=Other

PHOENIX USE ONLY

SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
008601	A14-S-22 (0-0.25)	S	7/2/13	1154
008602	A14-S-22 (0.25-0.5)			1157
008603	A14-S-22 (0.5-0.75)			1158
008604	A14-S-22 (0.75-1.0)			1159
008605	A14-S-22 (1.75-2.0)			1200
008606	A14-S-22 (2.75-3.0)			1202
008607	A14-S-22 (3.75-4.0)			1203
008608	A14-S-23 (0-0.25)			1210
008609	A14-S-23 (0.25-0.5)			1210
008670	A14-S-23 (0.5-0.75)			1211
008671	A14-S-23 (0.75-1.0)			1212
008672	A14-S-23 (1.75-2.0)			1214

Relinquished by: Andrew S. C.

Accepted by: James Horton

Comments, Special Requirements or Regulations:

Please freeze samples on hold

Detection Limit 0.5 ppm

Analysis Request

PCBs - Monte Solvent Extraction

Soil VOA Vials (methanol) H2O	
GL Soil container (02)	
40 ml VOA Vial (As is) HCl	
GL Amber 1000ml (As is) H2SO4	
PL As is (250ml) H2SO4	
PL HNO3 250ml	
PL NaOH 250ml	
Bedden Bottle	

Date: 7/2/13

Time: 1415

Date: 7/2/13

Time: 1110

Date: 7/2/13

Time: 1417

Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☒ Standard
☐ Other

RI

☐ Direct Exposure (Residential)

☐ GW

☐ Other

CT

☒ RCP Cert

☐ GW Protection

☐ SW Protection

☐ GA Mobility

☐ GB Mobility

☐ Residential DEC

☐ I/C DEC

☐ Other

MA

☐ MCP Certification

☐ GW-1

☐ GW-2

☐ GW-3

☐ S-1

☐ S-2

☐ S-3

☐ MWRA eSMART

☐ Other

Data Format

☒ Excel

☒ PDF

☒ GIS/Key

☐ EQUIS

☐ Other

Data Package

☐ Tier II Checklist

☐ Full Data Package*

☐ Phoenix Std Report

☐ Other

State where samples were collected: CT

* SURCHARGE APPLIES

* SURCHARGE APPLIES

Cooler: Yes ☐ No ☐
Coolant: IPK ☐ ICE ☐ N ☐

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726



Customer: G-214 Project: CES 05.0043369.83
Address: 655 Winding Brook Drive Report to: James Hutton
Cheshire CT 06033 Invoice to: G-214
Project P.O.:
Phone #:
Fax #:

Client Sample - Information - Identification
Sampler's Signature: [Signature] Date: 7/2/13

Matrix Code:
DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
SE=Sediment SL=Sludge S=Soil/Solid W=Wipe O=Other

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
00873	A14-S-23 (2.75-3.0)	S	7/2/13	1217
00874	A14-S-23 (3.75-4.0)			1219
00875	A14-S-24 (0-0.25)			1123
00876	A14-S-24 (0.25-0.5)			1124
00877	A14-S-24 (0.5-0.75)			1125
00878	A14-S-24 (0.75-1.0)			1126
00879	A14-S-24 (1.75-2.0)			1127
00880	A14-S-24 (2.75-3.0)			1127
00881	A14-S-24 (3.75-4.0)			1128
00882	A14-S-25 (0-0.25)			1144
00883	A14-S-25 (0.25-0.5)			1145
00884	A14-S-25 (0.5-0.75)			1146

Relinquished by: [Signature] Accepted by: Cheshire 5.001

Comments, Special Requirements or Regulations:
Freeze Samples on hold
Detection Limit 0.5 ppm

Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☒ Standard
☐ Other

Date: 7/2/13 Time: 1415
7-2-13 1110
7-3-13 1417

RI ☐ Direct Exposure (Residential)
☐ GW
☐ Other

CT ☒ RCP Cert
☐ GW Protection
☐ SW Protection
☐ GA Mobility
☐ GB Mobility
☐ Residential DEC
☐ I/C DEC
☐ Other

MA ☐ MCP Certification
☐ GW-1
☐ GW-2
☐ GW-3
☐ S-1
☐ S-2
☐ S-3
☐ MWRA eSMART
☐ Other

Data Format
☒ Excel
☒ PDF
☐ GIS/Key
☐ EQUIS
☐ Other

Data Package
☐ Tier II Checklist
☐ Full Data Package*
☐ Phoenix Std Report
☐ Other

* SURCHARGE APPLIES

State where samples were collected: CT

* SURCHARGE APPLIES

Linda - Phoenixlabs

From: Anthony Trani [Anthony.Trani@gza.com]
Sent: Wednesday, July 10, 2013 10:35 AM
To: 'linda@phoenixlabs.com'
Cc: James Hutton
Subject: Commercial Foundry Samples to run

Linda,

Can we please have the following samples taken off hold and run for PCB using manual soxhlet. *6-BD99578*
 Standard TOT. The job is Commercial Foundry (43369.83)

Concrete Floor Samples

GZA ID: A-14-F-17 (0.5-1)	Phoenix ID: 99583
GZA ID: A-14-F-18 (0.5-1)	Phoenix ID: 99584
GZA ID: A-14-F-36 (0.5-1)	Phoenix ID: 99601
GZA ID: A-14-F-12 (0-0.5)	Phoenix ID: 99551
GZA ID: A-14-F-13 (0-0.5)	Phoenix ID: 99552
GZA ID: A-14-F-14 (0-0.5)	Phoenix ID: 99553
GZA ID: A-14-F-19 (0-0.5)	Phoenix ID: 99558
GZA ID: A-14-F-30 (0-0.5)	Phoenix ID: 99569
GZA ID: A-14-F-35 (0-0.5)	Phoenix ID: 99574

Soil Samples

GZA ID: A-14-S24 (0-0.25)	Phoenix ID: 00875	<i>6BF00861</i>
GZA ID: Ext-6 (0.25-0.5)	Phoenix ID: 00904	
GZA ID: Ext-9 (0.75-1)	Phoenix ID: 00923	
GZA ID: Ext-10 (1.75-2)	Phoenix ID: 00930	
GZA ID: Ext-10(2.75-3)	Phoenix ID: 00931	
GZA ID: EXT-103	Phoenix ID: 99779, I sent an email yesterday requesting this but did not get a confirmation from you so I am including it again.	

Can we have the following samples taken off hold and run for ETPH. Standard TOT.

Soil Samples

GZA ID: A-1-S-8 (1-2)	Phoenix ID: 99799	<i>6BD99791</i>
GZA ID: A-3-S-18	Phoenix ID: 01299	Note-This sample name should be change as <i>6BD01298</i>
follows: A-3-S-18 (2-4)		

Anthony Trani
Scientist

GZA GeoEnvironmental, Inc.
 655 Winding Brook Drive, Suite 402
 Glastonbury, Connecticut 06033
 (860) 858-3121 (direct)
 (860) 990-5404 (cell)
 (860) 652-8590 (fax)
anthony.trani@gza.com

7/10/2013

Linda - Phoenixlabs

From: Benjamin Graham [Benjamin.Graham@gza.com]

Sent: Monday, July 15, 2013 3:35 PM

To: Linda - Phoenixlabs

Subject: RE: additional analysis-CFC 43369.83

Linda, here are the samples to run with Phoenix IDs for PCBs by manual soxhlet extraction. Please let me know if you need anything else. Standard TAT. Thanks-

Sample ID	Phoenix ID
A14-F-29 (0-0.5)	99568
A14-F-32 (0-0.5)	99571
A14-F-33 (0-0.5)	99572
A14-F-34 (0-0.5)	99573
A14-F-12 (0.5-1)	99578
A14-F-35 (0.5-1.0)	99600
A14-S-22 (0-0.25)	00861
A14-S-23 (0-0.25)	00868

From: Linda - Phoenixlabs [mailto:linda@phoenixlabs.com]

Sent: Monday, July 15, 2013 3:20 PM

To: Benjamin Graham

Subject: RE: additional analysis-CFC 43369.83

Hi Ben

We need the Phoenix ID's numbers please.

Linda

-Linda Chapman

Client Services Representative

Phoenix Environmental Laboratories

587 East Middle Turnpike

Manchester, CT 06040

Ph: 1-860-645-1102

This message is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged, confidential, and exempt from disclosure under applicable law.

From: Benjamin Graham [mailto:Benjamin.Graham@gza.com]

Sent: Monday, July 15, 2013 3:17 PM

To: Linda - Phoenixlabs

Subject: RE: additional analysis-CFC 43369.83

7/15/2013



Monday, July 15, 2013

Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Project ID: CFC 05.0043369.83

Sample ID#s: BF00903 - BF00904, BF00910, BF00917, BF00922 - BF00923, BF00927,
BF00930 - BF00931

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 15, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

07/02/13 9:25
07/03/13 14:17

Laboratory Data

SDG ID: GBF00903
Phoenix ID: BF00903

Project ID: CFC 05.0043369.83
Client ID: EXT-6 (0-0.25)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	63		%	07/04/13	JL	E160.3
Extraction for PCB	Completed			07/05/13	BB/HB	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.26	mg/kg	07/07/13	AW	3540C/8082
PCB-1221	ND	0.26	mg/kg	07/07/13	AW	3540C/8082
PCB-1232	ND	0.26	mg/kg	07/07/13	AW	3540C/8082
PCB-1242	ND	0.26	mg/kg	07/07/13	AW	3540C/8082
PCB-1248	ND	0.26	mg/kg	07/07/13	AW	3540C/8082
PCB-1254	1.2	0.26	mg/kg	07/07/13	AW	3540C/8082
PCB-1260	ND	0.26	mg/kg	07/07/13	AW	3540C/8082
PCB-1262	ND	0.26	mg/kg	07/07/13	AW	3540C/8082
PCB-1268	ND	0.26	mg/kg	07/07/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	75	%	07/07/13	AW	30 - 150 %
% TCMX	81	%	07/07/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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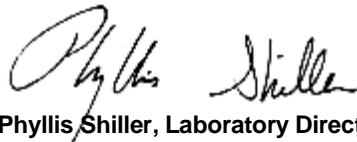
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

July 15, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 15, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

07/02/13
07/03/13

Time

9:27
14:17

Laboratory Data

SDG ID: GBF00903
Phoenix ID: BF00904

Project ID: CFC 05.0043369.83
Client ID: EXT-6 (0.25-0.5)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	89		%	07/10/13	JL	E160.3
Extraction for PCB	Completed			07/10/13	PP/K	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.36	mg/kg	07/11/13	AW	3540C/8082
PCB-1221	ND	0.36	mg/kg	07/11/13	AW	3540C/8082
PCB-1232	ND	0.36	mg/kg	07/11/13	AW	3540C/8082
PCB-1242	ND	0.36	mg/kg	07/11/13	AW	3540C/8082
PCB-1248	0.97	0.36	mg/kg	07/11/13	AW	3540C/8082
PCB-1254	ND	0.36	mg/kg	07/11/13	AW	3540C/8082
PCB-1260	ND	0.36	mg/kg	07/11/13	AW	3540C/8082
PCB-1262	ND	0.36	mg/kg	07/11/13	AW	3540C/8082
PCB-1268	ND	0.36	mg/kg	07/11/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	115	%	07/11/13	AW	30 - 150 %
% TCMX	91	%	07/11/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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July 15, 2013

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Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 15, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

07/02/13
07/03/13

Time

9:00
14:17

Laboratory Data

SDG ID: GBF00903
Phoenix ID: BF00910

Project ID: CFC 05.0043369.83
Client ID: EXT-7 (0-0.25)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	60		%	07/04/13	JL	E160.3
Extraction for PCB	Completed			07/05/13	BB/HB	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.27	mg/kg	07/07/13	AW	3540C/8082
PCB-1221	ND	0.27	mg/kg	07/07/13	AW	3540C/8082
PCB-1232	ND	0.27	mg/kg	07/07/13	AW	3540C/8082
PCB-1242	ND	0.27	mg/kg	07/07/13	AW	3540C/8082
PCB-1248	ND	0.27	mg/kg	07/07/13	AW	3540C/8082
PCB-1254	0.78	0.27	mg/kg	07/07/13	AW	3540C/8082
PCB-1260	ND	0.27	mg/kg	07/07/13	AW	3540C/8082
PCB-1262	ND	0.27	mg/kg	07/07/13	AW	3540C/8082
PCB-1268	ND	0.27	mg/kg	07/07/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	70	%	07/07/13	AW	30 - 150 %
% TCMX	76	%	07/07/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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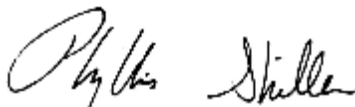
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

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July 15, 2013

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Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 15, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

07/02/13 9:52
07/03/13 14:17

Laboratory Data

SDG ID: GBF00903
Phoenix ID: BF00917

Project ID: CFC 05.0043369.83
Client ID: EXT-8 (0.5-0.75)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	80		%	07/04/13	JL	E160.3
Extraction for PCB	Completed			07/05/13	BB/HB	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.2	mg/kg	07/07/13	AW	3540C/8082
PCB-1221	ND	0.2	mg/kg	07/07/13	AW	3540C/8082
PCB-1232	ND	0.2	mg/kg	07/07/13	AW	3540C/8082
PCB-1242	ND	0.2	mg/kg	07/07/13	AW	3540C/8082
PCB-1248	ND	0.2	mg/kg	07/07/13	AW	3540C/8082
PCB-1254	ND	0.2	mg/kg	07/07/13	AW	3540C/8082
PCB-1260	ND	0.2	mg/kg	07/07/13	AW	3540C/8082
PCB-1262	ND	0.2	mg/kg	07/07/13	AW	3540C/8082
PCB-1268	ND	0.2	mg/kg	07/07/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	75	%	07/07/13	AW	30 - 150 %
% TCMX	72	%	07/07/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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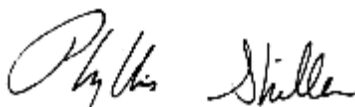
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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July 15, 2013

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Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 15, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

07/02/13 10:03
07/03/13 14:17

Laboratory Data

SDG ID: GBF00903
Phoenix ID: BF00922

Project ID: CFC 05.0043369.83
Client ID: EXT-9 (0.5-0.75)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	84		%	07/04/13	JL	E160.3
Extraction for PCB	Completed			07/05/13	BB/HB	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.2	mg/kg	07/07/13	AW	3540C/8082
PCB-1221	ND	0.2	mg/kg	07/07/13	AW	3540C/8082
PCB-1232	ND	0.2	mg/kg	07/07/13	AW	3540C/8082
PCB-1242	ND	0.2	mg/kg	07/07/13	AW	3540C/8082
PCB-1248	ND	0.2	mg/kg	07/07/13	AW	3540C/8082
PCB-1254	1.2	0.2	mg/kg	07/07/13	AW	3540C/8082
PCB-1260	ND	0.2	mg/kg	07/07/13	AW	3540C/8082
PCB-1262	ND	0.2	mg/kg	07/07/13	AW	3540C/8082
PCB-1268	ND	0.2	mg/kg	07/07/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	93	%	07/07/13	AW	30 - 150 %
% TCMX	86	%	07/07/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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July 15, 2013

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587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 15, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

07/02/13 10:05
07/03/13 14:17

Laboratory Data

SDG ID: GBF00903
Phoenix ID: BF00923

Project ID: CFC 05.0043369.83
Client ID: EXT-9 (0.75-1.0)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	85		%	07/10/13	JL	E160.3
Extraction for PCB	Completed			07/10/13	PP/K	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.39	mg/kg	07/11/13	AW	3540C/8082
PCB-1221	ND	0.39	mg/kg	07/11/13	AW	3540C/8082
PCB-1232	ND	0.39	mg/kg	07/11/13	AW	3540C/8082
PCB-1242	ND	0.39	mg/kg	07/11/13	AW	3540C/8082
PCB-1248	ND	0.39	mg/kg	07/11/13	AW	3540C/8082
PCB-1254	ND	0.39	mg/kg	07/11/13	AW	3540C/8082
PCB-1260	ND	0.39	mg/kg	07/11/13	AW	3540C/8082
PCB-1262	ND	0.39	mg/kg	07/11/13	AW	3540C/8082
PCB-1268	ND	0.39	mg/kg	07/11/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	65	%	07/11/13	AW	30 - 150 %
% TCMX	78	%	07/11/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 15, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

07/02/13
07/03/13

Time

9:40
14:17

Laboratory Data

SDG ID: GBF00903
Phoenix ID: BF00927

Project ID: CFC 05.0043369.83
Client ID: EXT-10 (0.25-0.5)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	83		%	07/04/13	JL	E160.3
Extraction for PCB	Completed			07/05/13	BB/HB	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.2	mg/kg	07/07/13	AW	3540C/8082
PCB-1221	ND	0.2	mg/kg	07/07/13	AW	3540C/8082
PCB-1232	ND	0.2	mg/kg	07/07/13	AW	3540C/8082
PCB-1242	ND	0.2	mg/kg	07/07/13	AW	3540C/8082
PCB-1248	ND	0.2	mg/kg	07/07/13	AW	3540C/8082
PCB-1254	0.45	0.2	mg/kg	07/07/13	AW	3540C/8082
PCB-1260	ND	0.2	mg/kg	07/07/13	AW	3540C/8082
PCB-1262	ND	0.2	mg/kg	07/07/13	AW	3540C/8082
PCB-1268	ND	0.2	mg/kg	07/07/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	78	%	07/07/13	AW	30 - 150 %
% TCMX	78	%	07/07/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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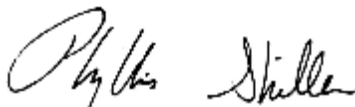
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

July 15, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 15, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date Time

07/02/13 9:45
07/03/13 14:17

Laboratory Data

SDG ID: GBF00903
Phoenix ID: BF00930

Project ID: CFC 05.0043369.83
Client ID: EXT-10 (1.75-2.0)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	83		%	07/10/13	JL	E160.3
Extraction for PCB	Completed			07/10/13	PP/K	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.4	mg/kg	07/11/13	AW	3540C/8082
PCB-1221	ND	0.4	mg/kg	07/11/13	AW	3540C/8082
PCB-1232	ND	0.4	mg/kg	07/11/13	AW	3540C/8082
PCB-1242	ND	0.4	mg/kg	07/11/13	AW	3540C/8082
PCB-1248	ND	0.4	mg/kg	07/11/13	AW	3540C/8082
PCB-1254	ND	0.4	mg/kg	07/11/13	AW	3540C/8082
PCB-1260	ND	0.4	mg/kg	07/11/13	AW	3540C/8082
PCB-1262	ND	0.4	mg/kg	07/11/13	AW	3540C/8082
PCB-1268	ND	0.4	mg/kg	07/11/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	66	%	07/11/13	AW	30 - 150 %
% TCMX	75	%	07/11/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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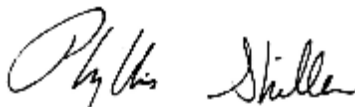
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

July 15, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 15, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#:

Custody Information

Collected by:
Received by: SW
Analyzed by: see "By" below

Date

07/02/13
07/03/13

Time

9:49
14:17

Laboratory Data

SDG ID: GBF00903
Phoenix ID: BF00931

Project ID: CFC 05.0043369.83
Client ID: EXT-10 (2.75-3.0)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	85		%	07/10/13	JL	E160.3
Extraction for PCB	Completed			07/10/13	PP/K	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.38	mg/kg	07/11/13	AW	3540C/8082
PCB-1221	ND	0.38	mg/kg	07/11/13	AW	3540C/8082
PCB-1232	ND	0.38	mg/kg	07/11/13	AW	3540C/8082
PCB-1242	ND	0.38	mg/kg	07/11/13	AW	3540C/8082
PCB-1248	ND	0.38	mg/kg	07/11/13	AW	3540C/8082
PCB-1254	ND	0.38	mg/kg	07/11/13	AW	3540C/8082
PCB-1260	ND	0.38	mg/kg	07/11/13	AW	3540C/8082
PCB-1262	ND	0.38	mg/kg	07/11/13	AW	3540C/8082
PCB-1268	ND	0.38	mg/kg	07/11/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	68	%	07/11/13	AW	30 - 150 %
% TCMX	75	%	07/11/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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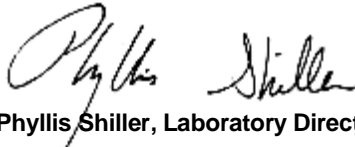
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

July 15, 2013

Reviewed and Released by: Maryam Taylor, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

July 15, 2013

QA/QC Data

SDG I.D.: GBF00903

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 238963, QC Sample No: BF00849 (BF00903, BF00910)									
<u>Polychlorinated Biphenyls - Solid</u>									
PCB-1016	ND	85			82	90	9.3	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	83			79	88	10.8	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	80	78			73	82	11.6	30 - 150	30
% TCMX (Surrogate Rec)	91	90			90	99	9.5	30 - 150	30
QA/QC Batch 239810, QC Sample No: BF00875 (BF00904, BF00923, BF00930, BF00931)									
<u>Polychlorinated Biphenyls - Solid</u>									
PCB-1016	ND	75	83	10.1	70	74	5.6	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	80	83	3.7	78	79	1.3	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	96	90	94	4.3	88	88	0.0	30 - 150	30
% TCMX (Surrogate Rec)	82	80	85	6.1	73	76	4.0	30 - 150	30
QA/QC Batch 238984, QC Sample No: BF00917 (BF00917, BF00922, BF00927, BF00933)									
<u>Polychlorinated Biphenyls - Solid</u>									
PCB-1016	ND	79	83	4.9	90	93	3.3	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	103	95	8.1	109	107	1.9	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	106	115	116	0.9	115	111	3.5	30 - 150	30
% TCMX (Surrogate Rec)	82	78	83	6.2	91	96	5.3	30 - 150	30

QA/QC Data

SDG I.D.: GBF00903

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
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If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

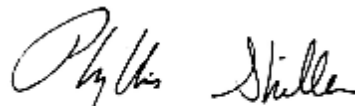
LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference



Phyllis Shiller, Laboratory Director

July 15, 2013

Monday, July 15, 2013

Requested Criteria: None

State: CT

Sample Criteria Exceedences Report

GBF00903 - GZA-PCB

Page 1 of 1

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** GZA-PCB

Project Location: CFC 05.0043369.83 **Project Number:**

Laboratory Sample ID(s): BF00903, BF00904, BF00905, BF00906, BF00907, BF00908, BF00909, BF00910, BF00911, BF00912, BF00913, BF00914, BF00915, BF00916, BF00917, BF00918, BF00919, BF00920, BF00921, BF00922, BF00923, BF00924, BF00925, BF00926, BF00927, BF00928, BF00929, BF00930, BF00931, BF00932, BF00933

Sampling Date(s): 7/2/2013

RCP Methods Used:

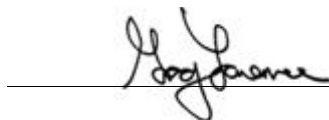
☐ 1311/1312 ☐ 6010 ☐ 7000 ☐ 7196 ☐ 7470/7471 ☐ 8081 ☐ EPH ☐ TO15
☒ 8082 ☐ 8151 ☐ 8260 ☐ 8270 ☐ ETPH ☐ 9010/9012 ☐ VPH

1.	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1a.	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1b.	EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2.	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4.	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5a.	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5b.	Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
6.	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA

Note: For all questions to which the response was "No" (with the exception of question #5a, #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized
Signature:



Date: Monday, July 15, 2013

Printed Name: Greg Lawrence

Position: Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

July 15, 2013

SDG ID.: GBF00903

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Au-ecd1 07/11/13-1 (BF00904, BF00923, BF00930, BF00931)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 7/11/2013

Instrument: Au-ecd24 07/07/13-1 (BF00917)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 7/7/2013

Instrument: Au-ecd3 07/07/13-1 (BF00903, BF00910, BF00917, BF00922, BF00927, BF00933)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 7/7/2013



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

July 15, 2013

SDG ID.: GBF00903

QC (Site Specific)

----- Sample No: BF00917, QA/QC Batch: 238984 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 40 - 140 with the following exceptions: None.

All MSD recoveries were within 40 - 140 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: None.

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

QC (Batch Specific)

----- Sample No: BF00849, QA/QC Batch: 238963 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

----- Sample No: BF00875, QA/QC Batch: 239810 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Temperature Narration

The samples were received at 6C with cooling initiated.
(Note acceptance criteria is above freezing up to 6°C)

Cooler: Yes ☒ No ☐
Coolant: JP ☒ ICE ☐ N ☐

Temp 68 °C Pg 1 of 3

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726



Customer: GZA Project: CEC 05-0043369.83
Address: 655 Winding Brook Drive Report to: Jim Hutton
Glastonbury CT 06033 Invoice to: GZA
Project P.O.: 860 286 8800
Phone #: Fax #:

Client Sample - Information - Identification

Sampler's Signature: [Signature] Date: 7/21/13

Matrix Code:
DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
SE=Sediment SL=Sludge S=Soil/Solid W=Wipe O=Other

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
00903	24-6 (0-0.25)	S	7/21/13	0925
00904	24-6 (0.25-0.5)			0927
00905	24-6 (0.5-0.75)			0928
00906	24-6 (0.75-1.0)			0930
00907	24-6 (1.75-2.0)			0933
00908	24-6 (2.75-3.0)			0937
00909	24-6 (3.75-4.0)			0940
00910	24-7 (0-0.25)			0940
00911	24-7 (0.25-0.5)			0942
00912	24-7 (0.5-0.75)			0944
00913	24-7 (0.75-1.0)			0945
00914	24-7 (1.75-2.0)			0948

Relinquished by: [Signature] Accepted by: [Signature]

Comments, Special Requirements or Regulations:
• Freeze Samples on hold
• Detection Limit 0.5 ppm

Date: 7/21/13 Time: 1415
7/21/13 1110
7:313 1417

Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☒ Standard
☐ Other

RI ☐ Direct Exposure
(Residential)
☐ GW
☐ Other

CT ☒ RCP Cert
☐ GW Protection
☐ SW Protection
☐ GA Mobility
☐ GB Mobility
☐ Residential DEC
☐ I/C DEC
☐ Other

MA ☐ MCP Certification
☐ GW-1
☐ GW-2
☐ GW-3
☐ S-1
☐ S-2
☐ S-3
☐ MWRA eSMART
☐ Other

Data Format
☒ Excel
☐ PDF
☐ GIS/Key
☐ EQUIS
☐ Other

Data Package
☐ Tier II Checklist
☐ Full Data Package*
☐ Phoenix Std Report
☐ Other

State where samples were collected: CT

* SURCHARGE APPLIES

CHAIN OF CUSTODY RECORD



587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
 Email: info@phoenixlabs.com Fax (860) 645-0823
 Client Services (860) 645-8726

Cooler: Yes ☐ No ☐
 Coolant: IPK ☐ ICE ☐ No ☐

Temp 6 °C Pg 2 of 3

Contact Options:

Fax: ☐
 Phone: ☐
 Email: ☒

Project P.O.: James Hutton 05.0043369.83

This section **MUST** be completed with Bottle Quantities.

Project: CFR 05.0043369.83
 Report to: James Hutton
 Invoice to: GZA

Customer: GZA
 Address: 655 Windy Brook Drive
Glentworth CT 06033

Client Sample - Information - Identification

Sampler's Signature: [Signature] Date: 7/2/13

Matrix Code:
 DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
 RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe
 OIL=Oil B=Bulk L=Liquid

PHOENIX USE ONLY	SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	Analysis Request
	00915	EX-7(2.75-3.0)	S	7/2/13	0915	X
	00916	EX-7(3.75-4.0)			0918	X
	00917	EX-8(0.5-0.75)			0952	X
	00918	EX-8(0.75-1.0)			0953	X
	00919	EX-8(1.75-2.0)			0955	X
	00920	EX-8(2.75-3.0)			0957	X
	00921	EX-8(3.75-4.0)			1000	X
	00922	EX-9(0.5-0.75)			1003	X
	00923	EX-9(0.75-1.0)			1005	X
	00924	EX-9(1.75-2.0)			1007	X
	00925	EX-9(2.75-3.0)			1010	X
	00926	EX-9(3.75-4.0)			1012	X

Relinquished by: [Signature] Accepted by: [Signature]

Date: 7/2/13 Time: 1415

Turnaround:
☐ 1 Day*
☐ 2 Days*
☒ 3 Days*
☐ Standard
☐ Other

Comments, Special Requirements or Regulations:
 • Freeze Samples on Hold
 • Detection Limit 0.5 ppm

State where samples were collected: CT

* SURCHARGE APPLIES

RI ☐ Direct Exposure (Residential) ☐ GW ☐ Other ☐

CT ☒ RCP Cart ☐ GW Protection ☐ SW Protection ☐ GA Mobility ☐ GB Mobility ☐ Residential DEC ☐ I/C DEC ☐ Other ☐

MA ☐ MCP Certification ☐ GW-1 ☐ GW-2 ☐ GW-3 ☐ S-1 ☐ S-2 ☐ S-3 ☐ MWRA eSMART ☐ Other ☐

Data Format
☒ Excel ☐ PDF ☐ GIS/Key ☐ EQUIS ☐ Other

Data Package
☐ Tier II Checklist ☐ Full Data Package* ☐ Phoenix Std Report ☐ Other

* SURCHARGE APPLIES



Wednesday, July 10, 2013

Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Project ID: COMMERCIAL FOUNDRY COMPANIES
Sample ID#s: BF00934 - BF00936

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 10, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43367.83

Custody Information

Collected by: AT
Received by: LB
Analyzed by: see "By" below

Date Time

07/02/13 8:50
07/03/13 14:17

Laboratory Data

SDG ID: GBF00934
Phoenix ID: BF00934

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: EXT-104

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	77		%	07/04/13	JL	E160.3
Extraction for PCB	Completed			07/05/13	BB/HB	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.21	mg/kg	07/07/13	AW	3540C/8082
PCB-1221	ND	0.21	mg/kg	07/07/13	AW	3540C/8082
PCB-1232	ND	0.21	mg/kg	07/07/13	AW	3540C/8082
PCB-1242	ND	0.21	mg/kg	07/07/13	AW	3540C/8082
PCB-1248	ND	0.21	mg/kg	07/07/13	AW	3540C/8082
PCB-1254	ND	0.21	mg/kg	07/07/13	AW	3540C/8082
PCB-1260	ND	0.21	mg/kg	07/07/13	AW	3540C/8082
PCB-1262	ND	0.21	mg/kg	07/07/13	AW	3540C/8082
PCB-1268	ND	0.21	mg/kg	07/07/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	78	%	07/07/13	AW	30 - 150 %
% TCMX	81	%	07/07/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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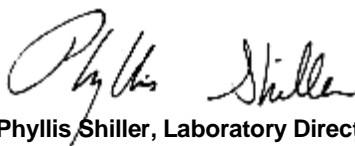
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

July 10, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 10, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43367.83

Custody Information

Collected by: AT
Received by: LB
Analyzed by: see "By" below

Date

07/02/13
07/03/13

Time

9:55
14:17

Laboratory Data

SDG ID: GBF00934
Phoenix ID: BF00935

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: EXT-105

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	81		%	07/04/13	JL	E160.3
Extraction for PCB	Completed			07/05/13	BB/HB	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.2	mg/kg	07/08/13	AW	3540C/8082
PCB-1221	ND	0.2	mg/kg	07/08/13	AW	3540C/8082
PCB-1232	ND	0.2	mg/kg	07/08/13	AW	3540C/8082
PCB-1242	ND	0.2	mg/kg	07/08/13	AW	3540C/8082
PCB-1248	1.8	0.2	mg/kg	07/08/13	AW	3540C/8082
PCB-1254	ND	0.2	mg/kg	07/08/13	AW	3540C/8082
PCB-1260	ND	0.2	mg/kg	07/08/13	AW	3540C/8082
PCB-1262	ND	0.2	mg/kg	07/08/13	AW	3540C/8082
PCB-1268	ND	0.2	mg/kg	07/08/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	99	%	07/08/13	AW	30 - 150 %
% TCMX	84	%	07/08/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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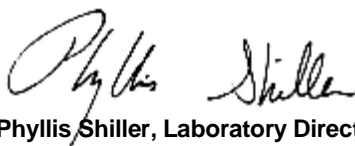
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

July 10, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 10, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOIL
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43367.83

Custody Information

Collected by: AT
Received by: LB
Analyzed by: see "By" below

Date Time

07/02/13 0:00
07/03/13 14:17

Laboratory Data

SDG ID: GBF00934
Phoenix ID: BF00936

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: EXT-106 4-4.25

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	83		%	07/04/13	JL	E160.3
Extraction for PCB	Completed			07/05/13	BB/HB	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.2	mg/kg	07/07/13	AW	3540C/8082
PCB-1221	ND	0.2	mg/kg	07/07/13	AW	3540C/8082
PCB-1232	ND	0.2	mg/kg	07/07/13	AW	3540C/8082
PCB-1242	ND	0.2	mg/kg	07/07/13	AW	3540C/8082
PCB-1248	ND	0.2	mg/kg	07/07/13	AW	3540C/8082
PCB-1254	ND	0.2	mg/kg	07/07/13	AW	3540C/8082
PCB-1260	ND	0.2	mg/kg	07/07/13	AW	3540C/8082
PCB-1262	ND	0.2	mg/kg	07/07/13	AW	3540C/8082
PCB-1268	ND	0.2	mg/kg	07/07/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	68	%	07/07/13	AW	30 - 150 %
% TCMX	69	%	07/07/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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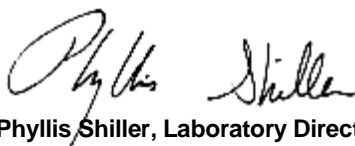
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

July 10, 2013

Reviewed and Released by: Greg Lawrence, Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

July 10, 2013

QA/QC Data

SDG I.D.: GBF00934

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 238984, QC Sample No: BF00917 (BF00934, BF00935, BF00936)									
<u>Polychlorinated Biphenyls - Soil</u>									
PCB-1016	ND	79	83	4.9	90	93	3.3	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	103	95	8.1	109	107	1.9	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	106	115	116	0.9	115	111	3.5	30 - 150	30
% TCMX (Surrogate Rec)	82	78	83	6.2	91	96	5.3	30 - 150	30

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis Shiller, Laboratory Director
July 10, 2013

Wednesday, July 10, 2013

Requested Criteria: GAM, RC

State: CT

Sample Criteria Exceedences Report

GBF00934 - GZA-PCB

Page 1 of 1

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BF00935	\$PCB_SOXR	PCB-1248	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	1800	200	1000	1000	ug/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** GZA-PCB

Project Location: COMMERCIAL FOUNDRY COM **Project Number:**

Laboratory Sample ID(s): BF00934, BF00935, BF00936, BF00937, BF00938

Sampling Date(s): 7/2/2013

RCP Methods Used:

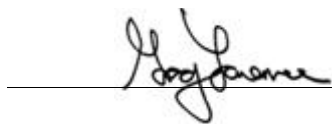
☐ 1311/1312 ☐ 6010 ☐ 7000 ☐ 7196 ☐ 7470/7471 ☐ 8081 ☐ EPH ☐ TO15
☒ 8082 ☐ 8151 ☐ 8260 ☐ 8270 ☐ ETPH ☐ 9010/9012 ☐ VPH

1.	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1a.	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1b.	EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2.	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4.	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5a.	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5b.	Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
6.	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA

Note: For all questions to which the response was "No" (with the exception of question #5a, #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized
Signature: _____



Date: Wednesday, July 10, 2013
 Printed Name: Greg Lawrence
 Position: Assistant Lab Director



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

July 10, 2013

SDG ID.: GBF00934

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Au-ecd1 07/08/13-1 (BF00935)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner

Position: Chemist

Date: 7/8/2013

Instrument: Au-ecd3 07/07/13-1 (BF00934, BF00935, BF00936)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner

Position: Chemist

Date: 7/7/2013

QC (Batch Specific)

----- Sample No: BF00917, QA/QC Batch: 238984 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Temperature Narration

The samples were received at 6C with cooling initiated.

(Note acceptance criteria is above freezing up to 6°C)



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RCP Certification Report

July 10, 2013

SDG LD.: GBF00934



CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Cooler: Yes ☐ No ☐
Coolant: IPK ☒ ICE ☐

Temp: 60 °C Pg 1 of 1

Contact Options:

Fax: ☐
Phone: ☐
Email: ☒

Customer: GZA

Address: 655 Winding Brook Dr., Suite 402

Glastonbury CT

Project: Commercial Family Company

Report to: James Patton

Invoice to: James Patton

Project P.O.: 43809.87

This section MUST be completed with Bottle Quantities.

Client Sample - Information - Identification

Sampler's Signature: Anthony S. m

Date: 7/2/13

Matrix Code:

DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
RW=Raw Water SE=Sediment SL=Sludge S=Soil SD=Solid W=Wipe
OIL=Oil B=Bulk L=Liquid

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
00934	Ext-104	S	7/2/13	0800
00935	Ext-105	S	7/2/13	0955
00936	Ext-106 (4425)	S	7/2/13	
00937	Ext-106 (5525)	S	7/2/13	
00938	Ext-106 (5756)	S	7/2/13	

Analysis Request

PCB (new sample)
Held for sample

Soil VOA Vials [methanol] [H₂O]
40 ml VOA Vial [As is] [HCl]
GL Soil container () oz
GL Soil container () oz
PL As is [] 250ml [] 500ml [] 1000ml
PL H₂SO₄ [] 250ml [] 500ml [] 1000ml
PL HNO₃ 250ml
Bacteria Bottle

Relinquished by: Anthony S. m

Accepted by: [Signature]

Date: 7-3-13 Time: 1110

RI ☐ Direct Exposure (Residential) ☐ GW ☐ Other ☐

CT ☒ RCP Cert ☒ GW Protection ☐ SW Protection ☒ GA Mobility ☐ GB Mobility ☒ Residential DEC ☐ I/C DEC ☐ Other ☐

MA ☐ MCP Certification ☐ GW-1 ☐ GW-2 ☐ GW-3 ☐ S-1 ☐ S-2 ☐ S-3 ☐ MWRA eSMART ☐ Other ☐

Data Format ☐ Excel ☒ PDF ☐ GIS/Key ☐ EQUIS ☐ Other ☐

Comments, Special Requirements or Regulations:

1. manual sex kit
2. detection limit = 0.5 mg/kg
3. freeze sample on hold

Turnaround: ☐ 1 Day* ☐ 2 Days* ☐ 3 Days* ☐ Standard ☐ Other

* SURCHARGE APPLIES

State where samples were collected: CT

* SURCHARGE APPLIES



Thursday, July 11, 2013

Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Project ID: COMMERCIAL FOUNDRY COMPANIES
Sample ID#s: BF01274 - BF01282

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 11, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.83

Custody Information

Collected by: AT
Received by: SW
Analyzed by: see "By" below

Date

07/03/13

Time

9:20

07/03/13 15:59

Laboratory Data

SDG ID: GBF01274
Phoenix ID: BF01274

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: A-14-PW-7 (4)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	07/05/13	LB	E160.3
Extraction for PCB	Completed			07/05/13	BB/HB	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.31	mg/kg	07/08/13	AW	3540C/8082
PCB-1221	ND	0.31	mg/kg	07/08/13	AW	3540C/8082
PCB-1232	ND	0.31	mg/kg	07/08/13	AW	3540C/8082
PCB-1242	ND	0.31	mg/kg	07/08/13	AW	3540C/8082
PCB-1248	*	0.31	mg/kg	07/08/13	AW	3540C/8082
PCB-1254	*	0.31	mg/kg	07/08/13	AW	3540C/8082
PCB-1260	*	0.31	mg/kg	07/08/13	AW	3540C/8082
PCB-1262	ND	0.31	mg/kg	07/08/13	AW	3540C/8082
PCB-1268	ND	0.31	mg/kg	07/08/13	AW	3540C/8082
Total PCBs	2	0.31	mg/kg	07/08/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	80	%	07/08/13	AW	30 - 150 %
% TCMX	75	%	07/08/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

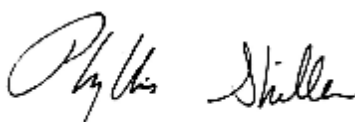
Comments:

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254 and 1260.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

July 11, 2013

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 11, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.83

Custody Information

Collected by: AT
Received by: SW
Analyzed by: see "By" below

Date

07/03/13

Time

10:00

07/03/13

15:59

Laboratory Data

SDG ID: GBF01274
Phoenix ID: BF01275

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: A-14-PW-7 (10)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	07/05/13	LB	E160.3
Extraction for PCB	Completed			07/05/13	BB/HB	SW3540C

PCB (Soxhlet)

PCB-1016	ND	2.4	mg/kg	07/08/13	AW	3540C/8082
PCB-1221	ND	2.4	mg/kg	07/08/13	AW	3540C/8082
PCB-1232	ND	2.4	mg/kg	07/08/13	AW	3540C/8082
PCB-1242	ND	2.4	mg/kg	07/08/13	AW	3540C/8082
PCB-1248	*	2.4	mg/kg	07/08/13	AW	3540C/8082
PCB-1254	*	2.4	mg/kg	07/08/13	AW	3540C/8082
PCB-1260	ND	2.4	mg/kg	07/08/13	AW	3540C/8082
PCB-1262	ND	2.4	mg/kg	07/08/13	AW	3540C/8082
PCB-1268	ND	2.4	mg/kg	07/08/13	AW	3540C/8082
Total PCBs	12	2.4	mg/kg	07/08/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out	%	07/08/13	AW	30 - 150 %
% TCMX	Diluted Out	%	07/08/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

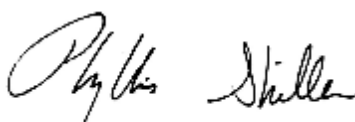
Comments:

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

July 11, 2013

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 11, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.83

Custody Information

Collected by: AT
Received by: SW
Analyzed by: see "By" below

Date

07/03/13

Time

10:10

07/03/13

15:59

Laboratory Data

SDG ID: GBF01274
Phoenix ID: BF01276

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: A-14-PW-7 (15)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	07/05/13	LB	E160.3
Extraction for PCB	Completed			07/07/13	TT/HB	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.57	mg/kg	07/09/13	AW	3540C/8082
PCB-1221	ND	0.57	mg/kg	07/09/13	AW	3540C/8082
PCB-1232	ND	0.57	mg/kg	07/09/13	AW	3540C/8082
PCB-1242	ND	0.57	mg/kg	07/09/13	AW	3540C/8082
PCB-1248	*	0.57	mg/kg	07/09/13	AW	3540C/8082
PCB-1254	*	0.57	mg/kg	07/09/13	AW	3540C/8082
PCB-1260	*	0.57	mg/kg	07/09/13	AW	3540C/8082
PCB-1262	ND	0.57	mg/kg	07/09/13	AW	3540C/8082
PCB-1268	ND	0.57	mg/kg	07/09/13	AW	3540C/8082
Total PCBs	5.2	0.57	mg/kg	07/09/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	107	%	07/09/13	AW	30 - 150 %
% TCMX	104	%	07/09/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

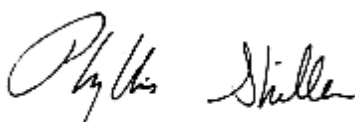
Comments:

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254 and 1260.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

July 11, 2013

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 11, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.83

Custody Information

Collected by: AT
Received by: SW
Analyzed by: see "By" below

Date

07/03/13

Time

9:40

07/03/13

15:59

Laboratory Data

SDG ID: GBF01274
Phoenix ID: BF01277

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: A-14-PW-8 (4)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	07/05/13	LB	E160.3
Extraction for PCB	Completed			07/07/13	TT/HB	SW3540C

PCB (Soxhlet)

PCB-1016	ND	2.5	mg/kg	07/09/13	AW	3540C/8082
PCB-1221	ND	2.5	mg/kg	07/09/13	AW	3540C/8082
PCB-1232	ND	2.5	mg/kg	07/09/13	AW	3540C/8082
PCB-1242	ND	2.5	mg/kg	07/09/13	AW	3540C/8082
PCB-1248	*	2.5	mg/kg	07/09/13	AW	3540C/8082
PCB-1254	*	2.5	mg/kg	07/09/13	AW	3540C/8082
PCB-1260	ND	2.5	mg/kg	07/09/13	AW	3540C/8082
PCB-1262	ND	2.5	mg/kg	07/09/13	AW	3540C/8082
PCB-1268	ND	2.5	mg/kg	07/09/13	AW	3540C/8082
Total PCBs	15	2.5	mg/kg	07/09/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out	%	07/09/13	AW	30 - 150 %
% TCMX	Diluted Out	%	07/09/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

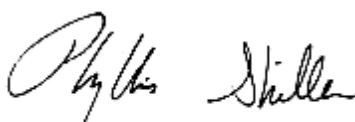
Comments:

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

July 11, 2013

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 11, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.83

Custody Information

Collected by: AT
Received by: SW
Analyzed by: see "By" below

<u>Date</u>	<u>Time</u>
07/03/13	10:40
07/03/13	15:59

Laboratory Data

SDG ID: GBF01274
Phoenix ID: BF01278

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: A-14-PW-8 (10)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	07/05/13	LB	E160.3
Extraction for PCB	Completed			07/07/13	TT/HB	SW3540C

PCB (Soxhlet)

PCB-1016	ND	2.5	mg/kg	07/09/13	AW	3540C/8082
PCB-1221	ND	2.5	mg/kg	07/09/13	AW	3540C/8082
PCB-1232	ND	2.5	mg/kg	07/09/13	AW	3540C/8082
PCB-1242	ND	2.5	mg/kg	07/09/13	AW	3540C/8082
PCB-1248	*	2.5	mg/kg	07/09/13	AW	3540C/8082
PCB-1254	*	2.5	mg/kg	07/09/13	AW	3540C/8082
PCB-1260	ND	2.5	mg/kg	07/09/13	AW	3540C/8082
PCB-1262	ND	2.5	mg/kg	07/09/13	AW	3540C/8082
PCB-1268	ND	2.5	mg/kg	07/09/13	AW	3540C/8082
Total PCBs	8.7	2.5	mg/kg	07/09/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out	%	07/09/13	AW	30 - 150 %
% TCMX	Diluted Out	%	07/09/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
-----------	--------	------------	-------	-----------	----	-----------

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

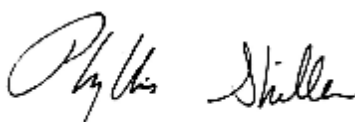
Comments:

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254.

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Phyllis Shiller, Laboratory Director

July 11, 2013

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 11, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.83

Custody Information

Collected by: AT
Received by: SW
Analyzed by: see "By" below

Date Time

07/03/13 10:50
07/03/13 15:59

Laboratory Data

SDG ID: GBF01274
Phoenix ID: BF01279

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: A-14-PW-8 (15)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	07/05/13	LB	E160.3
Extraction for PCB	Completed			07/07/13	TT/HB	SW3540C

PCB (Soxhlet)

PCB-1016	ND	2.6	mg/kg	07/09/13	AW	3540C/8082
PCB-1221	ND	2.6	mg/kg	07/09/13	AW	3540C/8082
PCB-1232	ND	2.6	mg/kg	07/09/13	AW	3540C/8082
PCB-1242	ND	2.6	mg/kg	07/09/13	AW	3540C/8082
PCB-1248	*	2.6	mg/kg	07/09/13	AW	3540C/8082
PCB-1254	*	2.6	mg/kg	07/09/13	AW	3540C/8082
PCB-1260	ND	2.6	mg/kg	07/09/13	AW	3540C/8082
PCB-1262	ND	2.6	mg/kg	07/09/13	AW	3540C/8082
PCB-1268	ND	2.6	mg/kg	07/09/13	AW	3540C/8082
Total PCBs	7.3	2.6	mg/kg	07/09/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out	%	07/09/13	AW	30 - 150 %
% TCMX	Diluted Out	%	07/09/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

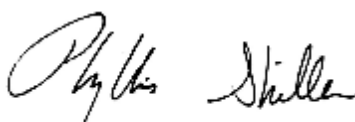
Comments:

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254.

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Phyllis Shiller, Laboratory Director

July 11, 2013

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 11, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.83

Custody Information

Collected by: AT
Received by: SW
Analyzed by: see "By" below

Date

07/03/13

Time

11:00

07/03/13

15:59

Laboratory Data

SDG ID: GBF01274
Phoenix ID: BF01280

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: A-14-PW-9 (4)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	07/05/13	LB	E160.3
Extraction for PCB	Completed			07/07/13	TT/HB	SW3540C

PCB (Soxhlet)

PCB-1016	ND	2.7	mg/kg	07/09/13	AW	3540C/8082
PCB-1221	ND	2.7	mg/kg	07/09/13	AW	3540C/8082
PCB-1232	ND	2.7	mg/kg	07/09/13	AW	3540C/8082
PCB-1242	ND	2.7	mg/kg	07/09/13	AW	3540C/8082
PCB-1248	*	2.7	mg/kg	07/09/13	AW	3540C/8082
PCB-1254	*	2.7	mg/kg	07/09/13	AW	3540C/8082
PCB-1260	ND	2.7	mg/kg	07/09/13	AW	3540C/8082
PCB-1262	ND	2.7	mg/kg	07/09/13	AW	3540C/8082
PCB-1268	ND	2.7	mg/kg	07/09/13	AW	3540C/8082
Total PCBs	17	2.7	mg/kg	07/09/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out	%	07/09/13	AW	30 - 150 %
% TCMX	Diluted Out	%	07/09/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

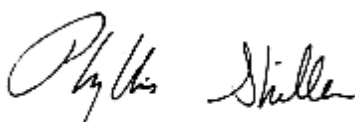
Comments:

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Phyllis Shiller, Laboratory Director

July 11, 2013

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 11, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.83

Custody Information

Collected by: AT
Received by: SW
Analyzed by: see "By" below

Date

07/03/13

Time

11:10

07/03/13

15:59

Laboratory Data

SDG ID: GBF01274
Phoenix ID: BF01281

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: A-14-PW-9 (10)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	07/05/13	LB	E160.3
Extraction for PCB	Completed			07/07/13	TT/HB	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.57	mg/kg	07/09/13	AW	3540C/8082
PCB-1221	ND	0.57	mg/kg	07/09/13	AW	3540C/8082
PCB-1232	ND	0.57	mg/kg	07/09/13	AW	3540C/8082
PCB-1242	ND	0.57	mg/kg	07/09/13	AW	3540C/8082
PCB-1248	*	0.57	mg/kg	07/09/13	AW	3540C/8082
PCB-1254	*	0.57	mg/kg	07/09/13	AW	3540C/8082
PCB-1260	*	0.57	mg/kg	07/09/13	AW	3540C/8082
PCB-1262	ND	0.57	mg/kg	07/09/13	AW	3540C/8082
PCB-1268	ND	0.57	mg/kg	07/09/13	AW	3540C/8082
Total PCBs	3.4	0.57	mg/kg	07/09/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	112	%	07/09/13	AW	30 - 150 %
% TCMX	106	%	07/09/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

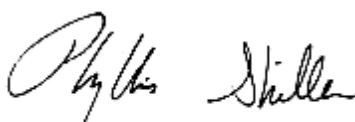
Comments:

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Phyllis Shiller, Laboratory Director

July 11, 2013

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 11, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.83

Custody Information

Collected by: AT
Received by: SW
Analyzed by: see "By" below

Date

07/03/13

Time

11:20

07/03/13

15:59

Laboratory Data

SDG ID: GBF01274
Phoenix ID: BF01282

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: A-14-PW-9 (15)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	07/05/13	LB	E160.3
Extraction for PCB	Completed			07/07/13	TT/HB	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.36	mg/kg	07/09/13	AW	3540C/8082
PCB-1221	ND	0.36	mg/kg	07/09/13	AW	3540C/8082
PCB-1232	ND	0.36	mg/kg	07/09/13	AW	3540C/8082
PCB-1242	ND	0.36	mg/kg	07/09/13	AW	3540C/8082
PCB-1248	*	0.36	mg/kg	07/09/13	AW	3540C/8082
PCB-1254	*	0.36	mg/kg	07/09/13	AW	3540C/8082
PCB-1260	*	0.36	mg/kg	07/09/13	AW	3540C/8082
PCB-1262	ND	0.36	mg/kg	07/09/13	AW	3540C/8082
PCB-1268	ND	0.36	mg/kg	07/09/13	AW	3540C/8082
Total PCBs	3	0.36	mg/kg	07/09/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	117	%	07/09/13	AW	30 - 150 %
% TCMX	107	%	07/09/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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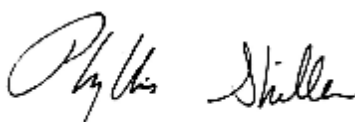
Comments:

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Phyllis Shiller, Laboratory Director

July 11, 2013

Reviewed and Released by: Rashmi Makol, Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

July 11, 2013

QA/QC Data

SDG I.D.: GBF01274

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 238984, QC Sample No: BF00917 (BF01274, BF01275)									
<u>Polychlorinated Biphenyls - Solid</u>									
PCB-1016	ND	79	83	4.9	90	93	3.3	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	103	95	8.1	109	107	1.9	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	106	115	116	0.9	115	111	3.5	30 - 150	30
% TCMX (Surrogate Rec)	82	78	83	6.2	91	96	5.3	30 - 150	30
QA/QC Batch 239053, QC Sample No: BF02167 (BF01276, BF01277, BF01278, BF01279, BF01280, BF01281, BF01282)									
<u>Polychlorinated Biphenyls - Solid</u>									
PCB-1016	ND	84	88	4.7	87			40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	87	92	5.6	96			40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	95	87	92	5.6	91			30 - 150	30
% TCMX (Surrogate Rec)	91	90	97	7.5	96			30 - 150	30

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis Shiller, Laboratory Director

July 11, 2013

Sample Criteria Exceedences Report

Requested Criteria: GAM, GBM, RC

GBF01274 - GZA-PCB

State: CT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BF01274	\$PCB_SOXR	Total PCBs	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	2000	310	1000	1000	ug/Kg
BF01275	\$PCB_SOXR	PCB-1016	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2400	1000	1000	ug/Kg
BF01275	\$PCB_SOXR	PCB-1221	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2400	1000	1000	ug/Kg
BF01275	\$PCB_SOXR	PCB-1232	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2400	1000	1000	ug/Kg
BF01275	\$PCB_SOXR	PCB-1242	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2400	1000	1000	ug/Kg
BF01275	\$PCB_SOXR	PCB-1248	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	*	2400	1000	1000	ug/Kg
BF01275	\$PCB_SOXR	PCB-1254	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	*	2400	1000	1000	ug/Kg
BF01275	\$PCB_SOXR	PCB-1260	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2400	1000	1000	ug/Kg
BF01275	\$PCB_SOXR	PCB-1262	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2400	1000	1000	ug/Kg
BF01275	\$PCB_SOXR	PCB-1268	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2400	1000	1000	ug/Kg
BF01275	\$PCB_SOXR	Total PCBs	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	12000	2400	1000	1000	ug/Kg
BF01276	\$PCB_SOXR	Total PCBs	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	5200	570	1000	1000	ug/Kg
BF01277	\$PCB_SOXR	PCB-1016	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2500	1000	1000	ug/Kg
BF01277	\$PCB_SOXR	PCB-1221	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2500	1000	1000	ug/Kg
BF01277	\$PCB_SOXR	PCB-1232	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2500	1000	1000	ug/Kg
BF01277	\$PCB_SOXR	PCB-1242	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2500	1000	1000	ug/Kg
BF01277	\$PCB_SOXR	PCB-1248	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	*	2500	1000	1000	ug/Kg
BF01277	\$PCB_SOXR	PCB-1254	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	*	2500	1000	1000	ug/Kg
BF01277	\$PCB_SOXR	PCB-1260	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2500	1000	1000	ug/Kg
BF01277	\$PCB_SOXR	PCB-1262	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2500	1000	1000	ug/Kg
BF01277	\$PCB_SOXR	PCB-1268	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2500	1000	1000	ug/Kg
BF01277	\$PCB_SOXR	Total PCBs	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	15000	2500	1000	1000	ug/Kg
BF01278	\$PCB_SOXR	PCB-1016	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2500	1000	1000	ug/Kg
BF01278	\$PCB_SOXR	PCB-1221	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2500	1000	1000	ug/Kg
BF01278	\$PCB_SOXR	PCB-1232	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2500	1000	1000	ug/Kg
BF01278	\$PCB_SOXR	PCB-1242	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2500	1000	1000	ug/Kg
BF01278	\$PCB_SOXR	PCB-1248	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	*	2500	1000	1000	ug/Kg
BF01278	\$PCB_SOXR	PCB-1254	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	*	2500	1000	1000	ug/Kg
BF01278	\$PCB_SOXR	PCB-1260	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2500	1000	1000	ug/Kg
BF01278	\$PCB_SOXR	PCB-1262	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2500	1000	1000	ug/Kg
BF01278	\$PCB_SOXR	PCB-1268	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2500	1000	1000	ug/Kg
BF01278	\$PCB_SOXR	Total PCBs	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	8700	2500	1000	1000	ug/Kg
BF01279	\$PCB_SOXR	PCB-1016	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2600	1000	1000	ug/Kg
BF01279	\$PCB_SOXR	PCB-1221	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2600	1000	1000	ug/Kg
BF01279	\$PCB_SOXR	PCB-1232	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2600	1000	1000	ug/Kg
BF01279	\$PCB_SOXR	PCB-1242	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2600	1000	1000	ug/Kg
BF01279	\$PCB_SOXR	PCB-1248	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	*	2600	1000	1000	ug/Kg
BF01279	\$PCB_SOXR	PCB-1254	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	*	2600	1000	1000	ug/Kg

Sample Criteria Exceedences Report

Requested Criteria: GAM, GBM, RC

GBF01274 - GZA-PCB

State: CT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BF01279	\$PCB_SOXR	PCB-1260	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2600	1000	1000	ug/Kg
BF01279	\$PCB_SOXR	PCB-1262	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2600	1000	1000	ug/Kg
BF01279	\$PCB_SOXR	PCB-1268	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2600	1000	1000	ug/Kg
BF01279	\$PCB_SOXR	Total PCBs	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	7300	2600	1000	1000	ug/Kg
BF01280	\$PCB_SOXR	PCB-1016	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2700	1000	1000	ug/Kg
BF01280	\$PCB_SOXR	PCB-1221	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2700	1000	1000	ug/Kg
BF01280	\$PCB_SOXR	PCB-1232	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2700	1000	1000	ug/Kg
BF01280	\$PCB_SOXR	PCB-1242	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2700	1000	1000	ug/Kg
BF01280	\$PCB_SOXR	PCB-1248	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	*	2700	1000	1000	ug/Kg
BF01280	\$PCB_SOXR	PCB-1254	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	*	2700	1000	1000	ug/Kg
BF01280	\$PCB_SOXR	PCB-1260	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2700	1000	1000	ug/Kg
BF01280	\$PCB_SOXR	PCB-1262	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2700	1000	1000	ug/Kg
BF01280	\$PCB_SOXR	PCB-1268	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2700	1000	1000	ug/Kg
BF01280	\$PCB_SOXR	Total PCBs	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	17000	2700	1000	1000	ug/Kg
BF01281	\$PCB_SOXR	Total PCBs	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	3400	570	1000	1000	ug/Kg
BF01282	\$PCB_SOXR	Total PCBs	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	3000	360	1000	1000	ug/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** GZA-PCB

Project Location: COMMERCIAL FOUNDRY COM **Project Number:**

Laboratory Sample ID(s): BF01274, BF01275, BF01276, BF01277, BF01278, BF01279, BF01280, BF01281, BF01282

Sampling Date(s): 7/3/2013

RCP Methods Used:

☐ 1311/1312 ☐ 6010 ☐ 7000 ☐ 7196 ☐ 7470/7471 ☐ 8081 ☐ EPH ☐ TO15
☒ 8082 ☐ 8151 ☐ 8260 ☐ 8270 ☐ ETPH ☐ 9010/9012 ☐ VPH

1.	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1a.	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1b.	EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2.	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4.	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5a.	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5b.	Were these reporting limits met?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
6.	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA

Note: For all questions to which the response was "No" (with the exception of question #5a, #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized
Signature: _____



Date: Thursday, July 11, 2013

Printed Name: Rashmi Makol

Position: Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

July 11, 2013

SDG I.D.: GBF01274

Not all requested reporting levels were achieved due to the presence of target and non target compounds.

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Au-ecd1 07/08/13-1 (BF01275)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 7/8/2013

Instrument: Au-ecd24 07/08/13-1 (BF01282)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 7/8/2013

Instrument: Au-ecd3 07/07/13-1 (BF01274, BF01275)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 7/7/2013

Instrument: Au-ecd5 07/09/13-1 (BF01276, BF01277, BF01278, BF01279, BF01280, BF01281, BF01282)



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RCP Certification Report

July 11, 2013

SDG ID.: GBF01274

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 7/9/2013

Instrument: Au-ecd6 07/08/13-1 (BF01276, BF01277, BF01281)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 7/8/2013

Instrument: Au-ecd7 07/08/13-1 (BF01278, BF01279, BF01280)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 7/8/2013



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RCP Certification Report

July 11, 2013

SDG ID.: GBF01274

QC (Batch Specific)

----- Sample No: BF00917, QA/QC Batch: 238984 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

----- Sample No: BF02167, QA/QC Batch: 239053 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Temperature Narration

The samples in this delivery group were received at 4°C.
(Note acceptance criteria is above freezing up to 6°C)

Cooler: Yes ☒ No ☐
Coolant: IPK ☐ ICE ☒ N ☐
Temp 4 °C Pg 1 of 1

CHAIN OF CUSTODY RECORD

587 East Middle Turnpike, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726



Customer: GZA Project: Commercial Laundry Companies Project P.O.: 43369.87
Address: 655 Winding Brook Drive, Suite 402 Report to: Jim Hutton Phone #: 860-888-708
Glastonbury, CT Invoice to: Jim Hutton Fax #: 860-882-8590

Client Sample - Information - Identification
Sampler's Signature: Anthony Siani Date: 7/3/13

Matrix Code:
DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
SE=Sediment SL=Sludge S=Soil/Solid W=Wipe O=Other

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
01274	A-14-PW-7 (4)	O	7/3/13	0920
01275	A-14-PW-7 (10)			1000
01276	A-14-PW-7 (15)			1010
01277	A-14-PW-8 (4)			0940
01278	A-14-PW-8 (10)			1040
01279	A-14-PW-8 (15)			1050
01280	A-14-PW-9 (4)			1100
01281	A-14-PW-9 (10)			1110
01282	A-14-PW-9 (15)			1120

Analysis
Request

PCB (Mussel Soxhlet)

Soil VOA Vial (Methanol) H₂O
GL Soil container (oz)
40 ml VOA Vial (As is) HCl
GL Amber 1000ml (As is) H₂SO₄
PL As is (250ml) (As is) H₂SO₄
PL H₂SO₄ (250ml) (As is) H₂SO₄
PL HNO₃ 250ml (As is) H₂SO₄
Backfill Bottle

Relinquished by: <u>Anthony Siani</u>	Accepted by: <u>[Signature]</u>	Date: <u>7/3/13</u>	Time: <u>13:59</u>	RI <input type="checkbox"/> Direct Exposure (Residential) <input type="checkbox"/> GW <input type="checkbox"/> Other	CT <input checked="" type="checkbox"/> RCP Cert <input type="checkbox"/> GW Protection <input type="checkbox"/> SW Protection <input checked="" type="checkbox"/> GA Mobility <input checked="" type="checkbox"/> GB Mobility <input checked="" type="checkbox"/> Residential DEC <input type="checkbox"/> I/C DEC <input type="checkbox"/> Other	MA <input type="checkbox"/> MCP Certification <input type="checkbox"/> GW-1 <input type="checkbox"/> GW-2 <input type="checkbox"/> GW-3 <input type="checkbox"/> S-1 <input type="checkbox"/> S-2 <input type="checkbox"/> S-3 <input type="checkbox"/> MWRA eSMART <input type="checkbox"/> Other	Data Format <input type="checkbox"/> Excel <input checked="" type="checkbox"/> PDF <input type="checkbox"/> GIS/Key <input type="checkbox"/> EQUIS <input type="checkbox"/> Other	Data Package <input type="checkbox"/> Tier II Checklist <input type="checkbox"/> Full Data Package* <input checked="" type="checkbox"/> Phoenix Std Report <input type="checkbox"/> Other
--	------------------------------------	------------------------	-----------------------	---	---	---	--	---

Comments, Special Requirements or Regulations:

1. manual Soxhlet extraction
2. detection limit = 0.5 mg/kg
- ~~3. base sample for total~~

State where samples were collected: CT

* SURCHARGE APPLIES

* SURCHARGE APPLIES



Friday, July 12, 2013

Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Project ID: COMMERCIAL FOUNDRY COMPANIES
Sample ID#s: BF01283 - BF01290

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 12, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.83

Custody Information

Collected by: AT
Received by: LB
Analyzed by: see "By" below

Date

07/03/13

Time

13:05

07/03/13

15:59

Laboratory Data

SDG ID: GBF01283
Phoenix ID: BF01283

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: A-10-PW-13 (10)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	07/05/13	LB	E160.3
Extraction for PCB	Completed			07/07/13	TT/HB	SW3540C

PCB (Soxhlet)

PCB-1016	ND	2.4	mg/kg	07/09/13	AW	3540C/8082
PCB-1221	ND	2.4	mg/kg	07/09/13	AW	3540C/8082
PCB-1232	ND	2.4	mg/kg	07/09/13	AW	3540C/8082
PCB-1242	ND	2.4	mg/kg	07/09/13	AW	3540C/8082
PCB-1248	*	2.4	mg/kg	07/09/13	AW	3540C/8082
PCB-1254	*	2.4	mg/kg	07/09/13	AW	3540C/8082
PCB-1260	ND	2.4	mg/kg	07/09/13	AW	3540C/8082
PCB-1262	ND	2.4	mg/kg	07/09/13	AW	3540C/8082
PCB-1268	ND	2.4	mg/kg	07/09/13	AW	3540C/8082
Total PCBs	12	2.4	mg/kg	07/09/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out	%	07/09/13	AW	30 - 150 %
% TCMX	Diluted Out	%	07/09/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

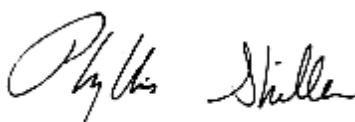
Comments:

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

July 12, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 12, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.83

Custody Information

Collected by: AT
Received by: LB
Analyzed by: see "By" below

Date Time

07/03/13 13:10
07/03/13 15:59

Laboratory Data

SDG ID: GBF01283
Phoenix ID: BF01284

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: A-10-PW-13 (15)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	07/05/13	LB	E160.3
Extraction for PCB	Completed			07/07/13	TT/HB	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.33	mg/kg	07/09/13	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	07/09/13	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	07/09/13	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	07/09/13	AW	3540C/8082
PCB-1248	*	0.33	mg/kg	07/09/13	AW	3540C/8082
PCB-1254	*	0.33	mg/kg	07/09/13	AW	3540C/8082
PCB-1260	*	0.33	mg/kg	07/09/13	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	07/09/13	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	07/09/13	AW	3540C/8082
Total PCBs	4.8	0.33	mg/kg	07/09/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	109	%	07/09/13	AW	30 - 150 %
% TCMX	102	%	07/09/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

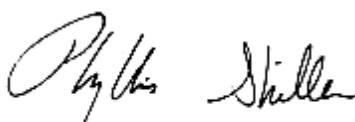
Comments:

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254 and 1260.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

July 12, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President



Environmental Laboratories, Inc.

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Analysis Report

July 12, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.83

Custody Information

Collected by: AT
Received by: LB
Analyzed by: see "By" below

Date Time

07/03/13 13:15
07/03/13 15:59

Laboratory Data

SDG ID: GBF01283
Phoenix ID: BF01285

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: A-10-PW-14 (10)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	07/05/13	LB	E160.3
Extraction for PCB	Completed			07/07/13	TT/HB	SW3540C

PCB (Soxhlet)

PCB-1016	ND	2.5	mg/kg	07/09/13	AW	3540C/8082
PCB-1221	ND	2.5	mg/kg	07/09/13	AW	3540C/8082
PCB-1232	ND	2.5	mg/kg	07/09/13	AW	3540C/8082
PCB-1242	ND	2.5	mg/kg	07/09/13	AW	3540C/8082
PCB-1248	22	2.5	mg/kg	07/09/13	AW	3540C/8082
PCB-1254	ND	2.5	mg/kg	07/09/13	AW	3540C/8082
PCB-1260	ND	2.5	mg/kg	07/09/13	AW	3540C/8082
PCB-1262	ND	2.5	mg/kg	07/09/13	AW	3540C/8082
PCB-1268	ND	2.5	mg/kg	07/09/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out	%	07/09/13	AW	30 - 150 %
% TCMX	Diluted Out	%	07/09/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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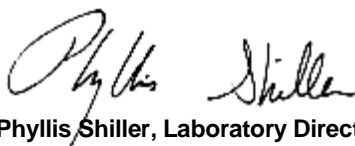
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

July 12, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 12, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.83

Custody Information

Collected by: AT
Received by: LB
Analyzed by: see "By" below

Date Time

07/03/13 13:20
07/03/13 15:59

Laboratory Data

SDG ID: GBF01283
Phoenix ID: BF01286

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: A-10-PW-14 (15)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	07/05/13	LB	E160.3
Extraction for PCB	Completed			07/07/13	TT/HB	SW3540C

PCB (Soxhlet)

PCB-1016	ND	1.6	mg/kg	07/09/13	AW	3540C/8082
PCB-1221	ND	1.6	mg/kg	07/09/13	AW	3540C/8082
PCB-1232	ND	1.6	mg/kg	07/09/13	AW	3540C/8082
PCB-1242	ND	1.6	mg/kg	07/09/13	AW	3540C/8082
PCB-1248	7.7	1.6	mg/kg	07/09/13	AW	3540C/8082
PCB-1254	ND	1.6	mg/kg	07/09/13	AW	3540C/8082
PCB-1260	ND	1.6	mg/kg	07/09/13	AW	3540C/8082
PCB-1262	ND	1.6	mg/kg	07/09/13	AW	3540C/8082
PCB-1268	ND	1.6	mg/kg	07/09/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out	%	07/09/13	AW	30 - 150 %
% TCMX	Diluted Out	%	07/09/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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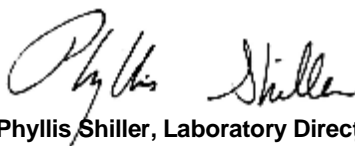
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

July 12, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 12, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.83

Custody Information

Collected by: AT
Received by: LB
Analyzed by: see "By" below

Date Time

07/03/13 13:25
07/03/13 15:59

Laboratory Data

SDG ID: GBF01283
Phoenix ID: BF01287

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: A-10-PW-15 (10)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	07/05/13	LB	E160.3
Extraction for PCB	Completed			07/07/13	TT/HB	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.5	mg/kg	07/10/13	AW	3540C/8082
PCB-1221	ND	0.5	mg/kg	07/10/13	AW	3540C/8082
PCB-1232	ND	0.5	mg/kg	07/10/13	AW	3540C/8082
PCB-1242	ND	0.5	mg/kg	07/10/13	AW	3540C/8082
PCB-1248	2.9	0.5	mg/kg	07/10/13	AW	3540C/8082
PCB-1254	ND	0.5	mg/kg	07/10/13	AW	3540C/8082
PCB-1260	ND	0.5	mg/kg	07/10/13	AW	3540C/8082
PCB-1262	ND	0.5	mg/kg	07/10/13	AW	3540C/8082
PCB-1268	ND	0.5	mg/kg	07/10/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	81	%	07/10/13	AW	30 - 150 %
% TCMX	90	%	07/10/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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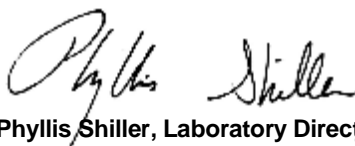
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

July 12, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 12, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.83

Custody Information

Collected by: AT
Received by: LB
Analyzed by: see "By" below

Date

07/03/13 13:30
07/03/13 15:59

Time

Laboratory Data

SDG ID: GBF01283
Phoenix ID: BF01288

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: A-10-PW-15 (15)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	07/05/13	LB	E160.3
Extraction for PCB	Completed			07/07/13	TT/HB	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.37	mg/kg	07/10/13	AW	3540C/8082
PCB-1221	ND	0.37	mg/kg	07/10/13	AW	3540C/8082
PCB-1232	ND	0.37	mg/kg	07/10/13	AW	3540C/8082
PCB-1242	ND	0.37	mg/kg	07/10/13	AW	3540C/8082
PCB-1248	1.7	0.37	mg/kg	07/10/13	AW	3540C/8082
PCB-1254	ND	0.37	mg/kg	07/10/13	AW	3540C/8082
PCB-1260	ND	0.37	mg/kg	07/10/13	AW	3540C/8082
PCB-1262	ND	0.37	mg/kg	07/10/13	AW	3540C/8082
PCB-1268	ND	0.37	mg/kg	07/10/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	85	%	07/10/13	AW	30 - 150 %
% TCMX	98	%	07/10/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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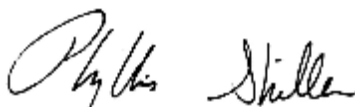
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

July 12, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 12, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.83

Custody Information

Collected by: AT
Received by: LB
Analyzed by: see "By" below

Date

07/03/13

Time

13:40

07/03/13

15:59

Laboratory Data

SDG ID: GBF01283
Phoenix ID: BF01289

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: A-10-PW-16 (10)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	07/05/13	LB	E160.3
Extraction for PCB	Completed			07/07/13	TT/HB	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.35	mg/kg	07/10/13	AW	3540C/8082
PCB-1221	ND	0.35	mg/kg	07/10/13	AW	3540C/8082
PCB-1232	ND	0.35	mg/kg	07/10/13	AW	3540C/8082
PCB-1242	ND	0.35	mg/kg	07/10/13	AW	3540C/8082
PCB-1248	1.8	0.35	mg/kg	07/10/13	AW	3540C/8082
PCB-1254	ND	0.35	mg/kg	07/10/13	AW	3540C/8082
PCB-1260	ND	0.35	mg/kg	07/10/13	AW	3540C/8082
PCB-1262	ND	0.35	mg/kg	07/10/13	AW	3540C/8082
PCB-1268	ND	0.35	mg/kg	07/10/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	86	%	07/10/13	AW	30 - 150 %
% TCMX	101	%	07/10/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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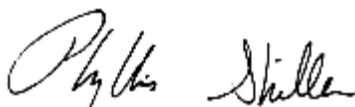
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

July 12, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 12, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43369.83

Custody Information

Collected by: AT
Received by: LB
Analyzed by: see "By" below

Date Time

07/03/13 13:45
07/03/13 15:59

Laboratory Data

SDG ID: GBF01283
Phoenix ID: BF01290

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: A-10-PW-16 (15)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	07/05/13	LB	E160.3
Extraction for PCB	Completed			07/07/13	TT/HB	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.33	mg/kg	07/09/13	AW	3540C/8082
PCB-1221	ND	0.33	mg/kg	07/09/13	AW	3540C/8082
PCB-1232	ND	0.33	mg/kg	07/09/13	AW	3540C/8082
PCB-1242	ND	0.33	mg/kg	07/09/13	AW	3540C/8082
PCB-1248	1.5	0.33	mg/kg	07/09/13	AW	3540C/8082
PCB-1254	ND	0.33	mg/kg	07/09/13	AW	3540C/8082
PCB-1260	ND	0.33	mg/kg	07/09/13	AW	3540C/8082
PCB-1262	ND	0.33	mg/kg	07/09/13	AW	3540C/8082
PCB-1268	ND	0.33	mg/kg	07/09/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	102	%	07/09/13	AW	30 - 150 %
% TCMX	92	%	07/09/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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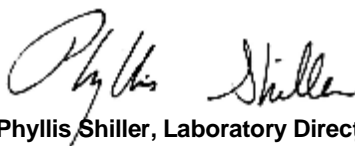
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

July 12, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

July 12, 2013

QA/QC Data

SDG I.D.: GBF01283

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 239060, QC Sample No: BF00835 (BF01286, BF01287, BF01288, BF01289, BF01290)									
<u>Polychlorinated Biphenyls - Solid</u>									
PCB-1016	ND	83	78	6.2	88	84	4.7	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	83	79	4.9	121	139	13.8	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	90	87	84	3.5	78	78	0.0	30 - 150	30
% TCMX (Surrogate Rec)	86	86	81	6.0	86	93	7.8	30 - 150	30
QA/QC Batch 239053, QC Sample No: BF02167 (BF01283, BF01284, BF01285)									
<u>Polychlorinated Biphenyls - Solid</u>									
PCB-1016	ND	84	88	4.7	87			40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	87	92	5.6	96			40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	95	87	92	5.6	91			30 - 150	30
% TCMX (Surrogate Rec)	91	90	97	7.5	96			30 - 150	30

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis Shiller, Laboratory Director

July 12, 2013

Sample Criteria Exceedences Report

Requested Criteria: GAM, RC

GBF01283 - GZA-PCB

State: CT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BF01283	\$PCB_SOXR	PCB-1016	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2400	1000	1000	ug/Kg
BF01283	\$PCB_SOXR	PCB-1221	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2400	1000	1000	ug/Kg
BF01283	\$PCB_SOXR	PCB-1232	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2400	1000	1000	ug/Kg
BF01283	\$PCB_SOXR	PCB-1242	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2400	1000	1000	ug/Kg
BF01283	\$PCB_SOXR	PCB-1248	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	*	2400	1000	1000	ug/Kg
BF01283	\$PCB_SOXR	PCB-1254	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	*	2400	1000	1000	ug/Kg
BF01283	\$PCB_SOXR	PCB-1260	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2400	1000	1000	ug/Kg
BF01283	\$PCB_SOXR	PCB-1262	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2400	1000	1000	ug/Kg
BF01283	\$PCB_SOXR	PCB-1268	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2400	1000	1000	ug/Kg
BF01283	\$PCB_SOXR	Total PCBs	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	12000	2400	1000	1000	ug/Kg
BF01284	\$PCB_SOXR	Total PCBs	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	4800	330	1000	1000	ug/Kg
BF01285	\$PCB_SOXR	PCB-1016	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2500	1000	1000	ug/Kg
BF01285	\$PCB_SOXR	PCB-1221	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2500	1000	1000	ug/Kg
BF01285	\$PCB_SOXR	PCB-1232	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2500	1000	1000	ug/Kg
BF01285	\$PCB_SOXR	PCB-1242	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2500	1000	1000	ug/Kg
BF01285	\$PCB_SOXR	PCB-1248	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	22000	2500	1000	1000	ug/Kg
BF01285	\$PCB_SOXR	PCB-1254	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2500	1000	1000	ug/Kg
BF01285	\$PCB_SOXR	PCB-1260	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2500	1000	1000	ug/Kg
BF01285	\$PCB_SOXR	PCB-1262	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2500	1000	1000	ug/Kg
BF01285	\$PCB_SOXR	PCB-1268	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	2500	1000	1000	ug/Kg
BF01286	\$PCB_SOXR	PCB-1016	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	1600	1000	1000	ug/Kg
BF01286	\$PCB_SOXR	PCB-1221	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	1600	1000	1000	ug/Kg
BF01286	\$PCB_SOXR	PCB-1232	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	1600	1000	1000	ug/Kg
BF01286	\$PCB_SOXR	PCB-1242	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	1600	1000	1000	ug/Kg
BF01286	\$PCB_SOXR	PCB-1248	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	7700	1600	1000	1000	ug/Kg
BF01286	\$PCB_SOXR	PCB-1254	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	1600	1000	1000	ug/Kg
BF01286	\$PCB_SOXR	PCB-1260	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	1600	1000	1000	ug/Kg
BF01286	\$PCB_SOXR	PCB-1262	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	1600	1000	1000	ug/Kg
BF01286	\$PCB_SOXR	PCB-1268	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	1600	1000	1000	ug/Kg
BF01287	\$PCB_SOXR	PCB-1248	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	2900	500	1000	1000	ug/Kg
BF01288	\$PCB_SOXR	PCB-1248	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	1700	370	1000	1000	ug/Kg
BF01289	\$PCB_SOXR	PCB-1248	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	1800	350	1000	1000	ug/Kg
BF01290	\$PCB_SOXR	PCB-1248	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	1500	330	1000	1000	ug/Kg

Friday, July 12, 2013

Requested Criteria: GAM, RC

State: CT

Sample Criteria Exceedences Report

GBF01283 - GZA-PCB

Page 2 of 2

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
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Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** GZA-PCB

Project Location: COMMERCIAL FOUNDRY COM **Project Number:**

Laboratory Sample ID(s): BF01283, BF01284, BF01285, BF01286, BF01287, BF01288, BF01289, BF01290

Sampling Date(s): 7/3/2013

RCP Methods Used:

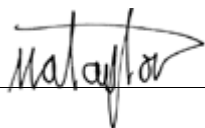
☐ 1311/1312 ☐ 6010 ☐ 7000 ☐ 7196 ☐ 7470/7471 ☐ 8081 ☐ EPH ☐ TO15
☒ 8082 ☐ 8151 ☐ 8260 ☐ 8270 ☐ ETPH ☐ 9010/9012 ☐ VPH

1.	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1a.	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1b.	EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2.	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4.	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5a.	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5b.	Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
6.	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA

Note: For all questions to which the response was "No" (with the exception of question #5a, #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized
Signature:



Date: Friday, July 12, 2013

Printed Name: Maryam Taylor

Position: Project Manager



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

July 12, 2013

SDG I.D.: GBF01283

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Au-ecd24 07/08/13-1 (BF01286, BF01290)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 7/8/2013

Instrument: Au-ecd5 07/09/13-1 (BF01283, BF01284, BF01285, BF01286, BF01287, BF01288, BF01289, BF01290)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 7/9/2013

Instrument: Au-ecd5 07/10/13-1 (BF01287, BF01288, BF01289)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 7/10/2013

Instrument: Au-ecd6 07/08/13-1 (BF01284)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823



RCP Certification Report

July 12, 2013

SDG ID.: GBF01283

Printed Name Adam Werner
Position: Chemist
Date: 7/8/2013

Instrument: Au-ecd7 07/08/13-1 (BF01283, BF01285)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 7/8/2013

QC (Batch Specific)

----- Sample No: BF00835, QA/QC Batch: 239060 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

----- Sample No: BF02167, QA/QC Batch: 239053 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Temperature Narration

The samples were received at 4C with cooling initiated.
(Note acceptance criteria is above freezing up to 6°C)

Cooler: Yes ☒ No ☐
Coolant: IPK ☐ ICE ☒ N ☐

Temp 4 °C Pg 1 of 1

CHAIN OF CUSTODY RECORD



587 East Middle Turnpike, Manchester, CT 06040
Email: info@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Data Delivery:

Fax #:

Email: janer.hutton@phoenix.com

Customer: GZA

Address: 655 Winding Brook Dr, Suite 402
Glastonbury, CT

Project: Commercial Forestry Companies

Report to: Jim Hutton

Invoice to: Jim Hutton

Project P.O.: 43361-83

Phone #: 860-858-3155

Fax #: 860-652-8590

Client Sample - Information - Identification

Sampler's Signature: Anthony Sica Date: 7/3/15

Matrix Code: DW=Drinking Water GW=Ground Water SW=Surface Water WW=Waste Water
SE=Sediment SL=Sludge S=Soil/Solid W=Wipe O=Other

PHOENIX USE ONLY SAMPLE #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled
01283	A-10-PW-13 (10)	0	7/3/15	1305
01284	A-10-PW-13 (15)			1310
01285	A-10-PW-14 (10)			1315
01286	A-10-PW-14 (15)			1320
01287	A-10-PW-15 (10)			1325
01288	A-10-PW-15 (15)			1330
01289	A-10-PW-16 (10)			1340
01290	A-10-PW-16 (15)			1345

Analysis
Request

Soil VOA Vial (Methanol) 1 H ₂ O	
GL Soil container (oz)	
40 ml VOA Vial (As is) 1 HCl	
GL Soil container (oz)	
GL Amber 100ml (As is) 1 H ₂ SO ₄	
PL As is (250ml) 1 H ₂ SO ₄	
PL H ₂ SO ₄ (250ml) 1 H ₂ SO ₄	
PL HNO ₃ 250ml	
PL NaOH 250ml	
Bacteria Bottle	

Relinquished by: Anthony Sica

Accepted by: [Signature]

Date: 7/3/15 Time: 15:59

RI ☐ Direct Exposure
(Residential) ☐ GW ☐ Other ☐

CT ☒ RCP Cert ☐ GW Protection ☐ SW Protection ☒ GA Mobility ☐ GB Mobility ☒ Residential DEC ☐ IIC DEC ☐ Other ☐

MA ☐ MCP Certification ☐ GW-1 ☐ GW-2 ☐ GW-3 ☐ S-1 ☐ S-2 ☐ S-3 ☐ MWRA eSMART ☐ Other ☐

Data Format ☐ Excel ☒ PDF ☐ GIS/Key ☐ EQUIS ☐ Other ☐

Comments, Special Requirements or Regulations:

1. manual analysis
2. detection limit = 0.5 mg/l/s

Turnaround: ☐ 1 Day ☐ 2 Days ☐ 3 Days ☒ Standard ☐ Other ☐

* SURCHARGE APPLIES

State where samples were collected: CT

* SURCHARGE APPLIES



Friday, July 12, 2013

Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Project ID: COMMERCIAL FOUNDRY COMPANIES
Sample ID#s: BF01291 - BF01297

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Phyllis Shiller".

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #MA-CT-007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 12, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43368.83

Custody Information

Collected by: AT
Received by: LB
Analyzed by: see "By" below

Date

07/03/13

Time

11:35

07/03/13

15:55

Laboratory Data

SDG ID: GBF01291
Phoenix ID: BF01291

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: A-12-PW-1 (10)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	07/05/13	LB	E160.3
Extraction for PCB	Completed			07/07/13	TT/HB	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.65	mg/kg	07/09/13	AW	3540C/8082
PCB-1221	ND	0.65	mg/kg	07/09/13	AW	3540C/8082
PCB-1232	ND	0.65	mg/kg	07/09/13	AW	3540C/8082
PCB-1242	ND	0.65	mg/kg	07/09/13	AW	3540C/8082
PCB-1248	*	0.65	mg/kg	07/09/13	AW	3540C/8082
PCB-1254	*	0.65	mg/kg	07/09/13	AW	3540C/8082
PCB-1260	*	0.65	mg/kg	07/09/13	AW	3540C/8082
PCB-1262	ND	0.65	mg/kg	07/09/13	AW	3540C/8082
PCB-1268	ND	0.65	mg/kg	07/09/13	AW	3540C/8082
Total PCBs	5.2	0.65	mg/kg	07/09/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	100	%	07/09/13	AW	30 - 150 %
% TCMX	99	%	07/09/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

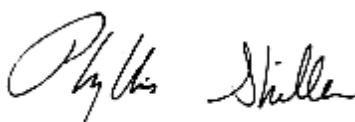
Comments:

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254 and 1260.

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Phyllis Shiller, Laboratory Director

July 12, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 12, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43368.83

Custody Information

Collected by: AT
Received by: LB
Analyzed by: see "By" below

Date

07/03/13

Time

11:30

07/03/13

15:55

Laboratory Data

SDG ID: GBF01291
Phoenix ID: BF01292

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: A-12-PW-1 (15)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	07/05/13	LB	E160.3
Extraction for PCB	Completed			07/07/13	TT/HB	SW3540C

PCB (Soxhlet)

PCB-1016	ND	3.4	mg/kg	07/09/13	AW	3540C/8082
PCB-1221	ND	3.4	mg/kg	07/09/13	AW	3540C/8082
PCB-1232	ND	3.4	mg/kg	07/09/13	AW	3540C/8082
PCB-1242	ND	3.4	mg/kg	07/09/13	AW	3540C/8082
PCB-1248	*	3.4	mg/kg	07/09/13	AW	3540C/8082
PCB-1254	*	3.4	mg/kg	07/09/13	AW	3540C/8082
PCB-1260	ND	3.4	mg/kg	07/09/13	AW	3540C/8082
PCB-1262	ND	3.4	mg/kg	07/09/13	AW	3540C/8082
PCB-1268	ND	3.4	mg/kg	07/09/13	AW	3540C/8082
Total PCBs	12	3.4	mg/kg	07/09/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out	%	07/09/13	AW	30 - 150 %
% TCMX	Diluted Out	%	07/09/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

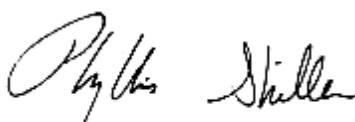
Comments:

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254.

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Phyllis Shiller, Laboratory Director

July 12, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 12, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43368.83

Custody Information

Collected by: AT
Received by: LB
Analyzed by: see "By" below

Date

07/03/13

Time

12:00

07/03/13

15:55

Laboratory Data

SDG ID: GBF01291
Phoenix ID: BF01293

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: A-12-PW-2 (10)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	07/05/13	LB	E160.3
Extraction for PCB	Completed			07/07/13	TT/HB	SW3540C

PCB (Soxhlet)

PCB-1016	ND	5.4	mg/kg	07/10/13	AW	3540C/8082
PCB-1221	ND	5.4	mg/kg	07/10/13	AW	3540C/8082
PCB-1232	ND	5.4	mg/kg	07/10/13	AW	3540C/8082
PCB-1242	ND	5.4	mg/kg	07/10/13	AW	3540C/8082
PCB-1248	*	5.4	mg/kg	07/10/13	AW	3540C/8082
PCB-1254	*	5.4	mg/kg	07/10/13	AW	3540C/8082
PCB-1260	*	5.4	mg/kg	07/10/13	AW	3540C/8082
PCB-1262	ND	5.4	mg/kg	07/10/13	AW	3540C/8082
PCB-1268	ND	5.4	mg/kg	07/10/13	AW	3540C/8082
Total PCBs	59	5.4	mg/kg	07/10/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out	%	07/10/13	AW	30 - 150 %
% TCMX	Diluted Out	%	07/10/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

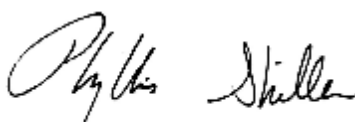
Comments:

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254 and 1260.

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Phyllis Shiller, Laboratory Director

July 12, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 12, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43368.83

Custody Information

Collected by: AT
Received by: LB
Analyzed by: see "By" below

<u>Date</u>	<u>Time</u>
07/03/13	12:10
07/03/13	15:55

Laboratory Data

SDG ID: GBF01291
Phoenix ID: BF01294

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: A-12-PW-2 (15)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	07/05/13	LB	E160.3
Extraction for PCB	Completed			07/07/13	TT/HB	SW3540C

PCB (Soxhlet)

PCB-1016	ND	3.9	mg/kg	07/09/13	AW	3540C/8082
PCB-1221	ND	3.9	mg/kg	07/09/13	AW	3540C/8082
PCB-1232	ND	3.9	mg/kg	07/09/13	AW	3540C/8082
PCB-1242	ND	3.9	mg/kg	07/09/13	AW	3540C/8082
PCB-1248	*	3.9	mg/kg	07/09/13	AW	3540C/8082
PCB-1254	*	3.9	mg/kg	07/09/13	AW	3540C/8082
PCB-1260	ND	3.9	mg/kg	07/09/13	AW	3540C/8082
PCB-1262	ND	3.9	mg/kg	07/09/13	AW	3540C/8082
PCB-1268	ND	3.9	mg/kg	07/09/13	AW	3540C/8082
Total PCBs	30	3.9	mg/kg	07/09/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out	%	07/09/13	AW	30 - 150 %
% TCMX	Diluted Out	%	07/09/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

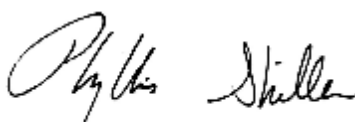
Comments:

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254.

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Phyllis Shiller, Laboratory Director

July 12, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 12, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43368.83

Custody Information

Collected by: AT
Received by: LB
Analyzed by: see "By" below

Date Time

07/03/13 12:25
07/03/13 15:55

Laboratory Data

SDG ID: GBF01291
Phoenix ID: BF01295

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: A-12-PW-3 (10)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	07/05/13	LB	E160.3
Extraction for PCB	Completed			07/07/13	TT/HB	SW3540C

PCB (Soxhlet)

PCB-1016	ND	4.9	mg/kg	07/09/13	AW	3540C/8082
PCB-1221	ND	4.9	mg/kg	07/09/13	AW	3540C/8082
PCB-1232	ND	4.9	mg/kg	07/09/13	AW	3540C/8082
PCB-1242	ND	4.9	mg/kg	07/09/13	AW	3540C/8082
PCB-1248	*	4.9	mg/kg	07/09/13	AW	3540C/8082
PCB-1254	*	4.9	mg/kg	07/09/13	AW	3540C/8082
PCB-1260	ND	4.9	mg/kg	07/09/13	AW	3540C/8082
PCB-1262	ND	4.9	mg/kg	07/09/13	AW	3540C/8082
PCB-1268	ND	4.9	mg/kg	07/09/13	AW	3540C/8082
Total PCBs	40	4.9	mg/kg	07/09/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out	%	07/09/13	AW	30 - 150 %
% TCMX	Diluted Out	%	07/09/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

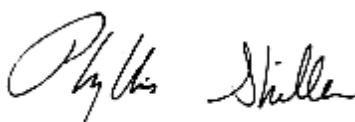
Comments:

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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Phyllis Shiller, Laboratory Director

July 12, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President



Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 12, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43368.83

Custody Information

Collected by: AT
Received by: LB
Analyzed by: see "By" below

Date

07/03/13

Time

12:35

07/03/13

15:55

Laboratory Data

SDG ID: GBF01291
Phoenix ID: BF01296

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: A-12-PW-3 (15)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	07/05/13	LB	E160.3
Extraction for PCB	Completed			07/07/13	TT/HB	SW3540C

PCB (Soxhlet)

PCB-1016	ND	3.2	mg/kg	07/09/13	AW	3540C/8082
PCB-1221	ND	3.2	mg/kg	07/09/13	AW	3540C/8082
PCB-1232	ND	3.2	mg/kg	07/09/13	AW	3540C/8082
PCB-1242	ND	3.2	mg/kg	07/09/13	AW	3540C/8082
PCB-1248	*	3.2	mg/kg	07/09/13	AW	3540C/8082
PCB-1254	*	3.2	mg/kg	07/09/13	AW	3540C/8082
PCB-1260	*	3.2	mg/kg	07/09/13	AW	3540C/8082
PCB-1262	ND	3.2	mg/kg	07/09/13	AW	3540C/8082
PCB-1268	ND	3.2	mg/kg	07/09/13	AW	3540C/8082
Total PCBs	26	3.2	mg/kg	07/09/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	Diluted Out	%	07/09/13	AW	30 - 150 %
% TCMX	Diluted Out	%	07/09/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

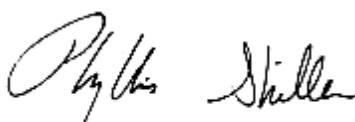
Comments:

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All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

July 12, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President



Environmental Laboratories, Inc.

587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 12, 2013

FOR: Attn: Mr. Jim Hutton
GZA GeoEnvironmental Inc
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information

Matrix: SOLID
Location Code: GZA-PCB
Rush Request: Standard
P.O.#: 43368.83

Custody Information

Collected by: AT
Received by: LB
Analyzed by: see "By" below

<u>Date</u>	<u>Time</u>
07/03/13	11:40
07/03/13	15:55

Laboratory Data

SDG ID: GBF01291
Phoenix ID: BF01297

Project ID: COMMERCIAL FOUNDRY COMPANIES
Client ID: A-12-PW-1 (20)

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
Percent Solid	100	1	%	07/05/13	LB	E160.3
Extraction for PCB	Completed			07/07/13	TT/HB	SW3540C

PCB (Soxhlet)

PCB-1016	ND	0.85	mg/kg	07/10/13	AW	3540C/8082
PCB-1221	ND	0.85	mg/kg	07/10/13	AW	3540C/8082
PCB-1232	ND	0.85	mg/kg	07/10/13	AW	3540C/8082
PCB-1242	ND	0.85	mg/kg	07/10/13	AW	3540C/8082
PCB-1248	*	0.85	mg/kg	07/10/13	AW	3540C/8082
PCB-1254	*	0.85	mg/kg	07/10/13	AW	3540C/8082
PCB-1260	*	0.85	mg/kg	07/10/13	AW	3540C/8082
PCB-1262	ND	0.85	mg/kg	07/10/13	AW	3540C/8082
PCB-1268	ND	0.85	mg/kg	07/10/13	AW	3540C/8082
Total PCBs	5.4	0.85	mg/kg	07/10/13	AW	3540C/8082

QA/QC Surrogates

% DCBP	98	%	07/10/13	AW	30 - 150 %
% TCMX	77	%	07/10/13	AW	30 - 150 %

Parameter	Result	RL/ PQL	Units	Date/Time	By	Reference
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RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

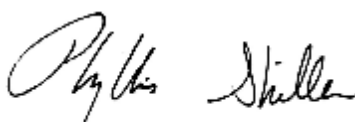
Comments:

* For PCBs, as per section 11.9.3, when multiple Aroclor's of PCBs are present and the aroclor is no longer recognizable, quantitation may be performed by comparing the total area of the PCB pattern to that of the aroclor it mostly resembles. The PCB pattern did not resemble any of the standards, but most closely resembles a mixture of the Aroclors 1248 and 1254 and 1260.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

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Phyllis Shiller, Laboratory Director

July 12, 2013

Reviewed and Released by: Bobbi Aloisa, Vice President



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Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

July 12, 2013

QA/QC Data

SDG I.D.: GBF01291

Parameter	Blank	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 239060, QC Sample No: BF00835 (BF01291, BF01292, BF01293, BF01294, BF01295, BF01296, BF01297)									
Polychlorinated Biphenyls - Solid									
PCB-1016	ND	83	78	6.2	88	84	4.7	40 - 140	30
PCB-1221	ND							40 - 140	30
PCB-1232	ND							40 - 140	30
PCB-1242	ND							40 - 140	30
PCB-1248	ND							40 - 140	30
PCB-1254	ND							40 - 140	30
PCB-1260	ND	83	79	4.9	121	139	13.8	40 - 140	30
PCB-1262	ND							40 - 140	30
PCB-1268	ND							40 - 140	30
% DCBP (Surrogate Rec)	90	87	84	3.5	78	78	0.0	30 - 150	30
% TCMX (Surrogate Rec)	86	86	81	6.0	86	93	7.8	30 - 150	30

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference

LCS - Laboratory Control Sample

LCSD - Laboratory Control Sample Duplicate

MS - Matrix Spike

MS Dup - Matrix Spike Duplicate

NC - No Criteria

Intf - Interference

Phyllis Shiller, Laboratory Director
July 12, 2013

Sample Criteria Exceedences Report

Requested Criteria: GAM, RC

GBF01291 - GZA-PCB

State: CT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BF01291	\$PCB_SOXR	Total PCBs	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	5200	650	1000	1000	ug/Kg
BF01292	\$PCB_SOXR	PCB-1016	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	3400	1000	1000	ug/Kg
BF01292	\$PCB_SOXR	PCB-1221	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	3400	1000	1000	ug/Kg
BF01292	\$PCB_SOXR	PCB-1232	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	3400	1000	1000	ug/Kg
BF01292	\$PCB_SOXR	PCB-1242	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	3400	1000	1000	ug/Kg
BF01292	\$PCB_SOXR	PCB-1248	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	*	3400	1000	1000	ug/Kg
BF01292	\$PCB_SOXR	PCB-1254	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	*	3400	1000	1000	ug/Kg
BF01292	\$PCB_SOXR	PCB-1260	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	3400	1000	1000	ug/Kg
BF01292	\$PCB_SOXR	PCB-1262	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	3400	1000	1000	ug/Kg
BF01292	\$PCB_SOXR	PCB-1268	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	3400	1000	1000	ug/Kg
BF01292	\$PCB_SOXR	Total PCBs	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	12000	3400	1000	1000	ug/Kg
BF01293	\$PCB_SOXR	PCB-1016	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	5400	1000	1000	ug/Kg
BF01293	\$PCB_SOXR	PCB-1221	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	5400	1000	1000	ug/Kg
BF01293	\$PCB_SOXR	PCB-1232	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	5400	1000	1000	ug/Kg
BF01293	\$PCB_SOXR	PCB-1242	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	5400	1000	1000	ug/Kg
BF01293	\$PCB_SOXR	PCB-1248	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	*	5400	1000	1000	ug/Kg
BF01293	\$PCB_SOXR	PCB-1254	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	*	5400	1000	1000	ug/Kg
BF01293	\$PCB_SOXR	PCB-1260	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	*	5400	1000	1000	ug/Kg
BF01293	\$PCB_SOXR	PCB-1262	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	5400	1000	1000	ug/Kg
BF01293	\$PCB_SOXR	PCB-1268	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	5400	1000	1000	ug/Kg
BF01293	\$PCB_SOXR	Total PCBs	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	59000	5400	1000	1000	ug/Kg
BF01294	\$PCB_SOXR	PCB-1016	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	3900	1000	1000	ug/Kg
BF01294	\$PCB_SOXR	PCB-1221	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	3900	1000	1000	ug/Kg
BF01294	\$PCB_SOXR	PCB-1232	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	3900	1000	1000	ug/Kg
BF01294	\$PCB_SOXR	PCB-1242	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	3900	1000	1000	ug/Kg
BF01294	\$PCB_SOXR	PCB-1248	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	*	3900	1000	1000	ug/Kg
BF01294	\$PCB_SOXR	PCB-1254	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	*	3900	1000	1000	ug/Kg
BF01294	\$PCB_SOXR	PCB-1260	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	3900	1000	1000	ug/Kg
BF01294	\$PCB_SOXR	PCB-1262	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	3900	1000	1000	ug/Kg
BF01294	\$PCB_SOXR	PCB-1268	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	3900	1000	1000	ug/Kg
BF01294	\$PCB_SOXR	Total PCBs	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	30000	3900	1000	1000	ug/Kg
BF01295	\$PCB_SOXR	PCB-1016	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	4900	1000	1000	ug/Kg
BF01295	\$PCB_SOXR	PCB-1221	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	4900	1000	1000	ug/Kg
BF01295	\$PCB_SOXR	PCB-1232	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	4900	1000	1000	ug/Kg
BF01295	\$PCB_SOXR	PCB-1242	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	4900	1000	1000	ug/Kg
BF01295	\$PCB_SOXR	PCB-1248	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	*	4900	1000	1000	ug/Kg
BF01295	\$PCB_SOXR	PCB-1254	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	*	4900	1000	1000	ug/Kg
BF01295	\$PCB_SOXR	PCB-1260	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	4900	1000	1000	ug/Kg
BF01295	\$PCB_SOXR	PCB-1262	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	4900	1000	1000	ug/Kg

Sample Criteria Exceedences Report

Requested Criteria: GAM, RC

GBF01291 - GZA-PCB

State: CT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BF01295	\$PCB_SOXR	PCB-1268	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	4900	1000	1000	ug/Kg
BF01295	\$PCB_SOXR	Total PCBs	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	40000	4900	1000	1000	ug/Kg
BF01296	\$PCB_SOXR	PCB-1016	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	3200	1000	1000	ug/Kg
BF01296	\$PCB_SOXR	PCB-1221	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	3200	1000	1000	ug/Kg
BF01296	\$PCB_SOXR	PCB-1232	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	3200	1000	1000	ug/Kg
BF01296	\$PCB_SOXR	PCB-1242	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	3200	1000	1000	ug/Kg
BF01296	\$PCB_SOXR	PCB-1248	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	*	3200	1000	1000	ug/Kg
BF01296	\$PCB_SOXR	PCB-1254	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	*	3200	1000	1000	ug/Kg
BF01296	\$PCB_SOXR	PCB-1260	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	*	3200	1000	1000	ug/Kg
BF01296	\$PCB_SOXR	PCB-1262	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	3200	1000	1000	ug/Kg
BF01296	\$PCB_SOXR	PCB-1268	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	ND	3200	1000	1000	ug/Kg
BF01296	\$PCB_SOXR	Total PCBs	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	26000	3200	1000	1000	ug/Kg
BF01297	\$PCB_SOXR	Total PCBs	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	5400	850	1000	1000	ug/Kg

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Reasonable Confidence Protocol Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** GZA-PCB
Project Location: COMMERCIAL FOUNDRY COM **Project Number:**
Laboratory Sample ID(s): BF01291, BF01292, BF01293, BF01294, BF01295, BF01296, BF01297
Sampling Date(s): 7/3/2013

RCP Methods Used:

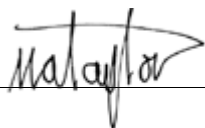
☐ 1311/1312 ☐ 6010 ☐ 7000 ☐ 7196 ☐ 7470/7471 ☐ 8081 ☐ EPH ☐ TO15
☒ 8082 ☐ 8151 ☐ 8260 ☐ 8270 ☐ ETPH ☐ 9010/9012 ☐ VPH

1.	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1a.	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1b.	EPH and VPH methods only: Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
2.	Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3.	Were samples received at an appropriate temperature (< 6 Degrees C)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4.	Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5a.	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5b.	Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
6.	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
7.	Are project-specific matrix spikes and laboratory duplicates included in the data set?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA

Note: For all questions to which the response was "No" (with the exception of question #5a, #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence".

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized
Signature:



Date: Friday, July 12, 2013
 Printed Name: Maryam Taylor
 Position: Project Manager



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RCP Certification Report

July 12, 2013

SDG I.D.: GBF01291

PCB Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Au-ecd24 07/08/13-1 (BF01291, BF01292)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 7/8/2013

Instrument: Au-ecd5 07/09/13-1 (BF01291, BF01292, BF01293, BF01294, BF01295, BF01296, BF01297)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 7/9/2013

Instrument: Au-ecd5 07/10/13-1 (BF01293, BF01297)

8082 Narration:

The initial calibration RSD for the compound list was less than 15% except for the following compounds: none

The continuing calibration standards were within acceptance criteria except for the following compounds: none

Printed Name Adam Werner
Position: Chemist
Date: 7/10/2013



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RCP Certification Report

July 12, 2013

SDG ID.: GBF01291

QC (Batch Specific)

----- Sample No: BF00835, QA/QC Batch: 239060 -----

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Temperature Narration

The samples were received at 4C with cooling initiated.
(Note acceptance criteria is above freezing up to 6°C)

APPENDIX D
DATA QUALITY ASSESSMENT AND USABILITY EVALUATION

Appendix D
DATA QUALITY ASSESSMENT AND USABILITY EVALUATION
COMMERCIAL FOUNDRY COMPANIES
326 SOUTH STREET
NEW BRITAIN, CONNECTICUT

Sample Type/Location:	1988 Envi Assurance Report	1988 Envi Assurance Report	1992 GZA Report	1992 GZA Report	1992 GZA Report	1992 GZA report	1992 GZA report
Lab/Lab Report ID:	Envi Monitoring Laboratory	Baron Consulting	GZA ECL	GZA ECL	ESC 11618	ESC	GZA ECL
Report Date:	5/12/1988	11/11/1988	5/14/1992	5/18/1992	5/21/1992	7/30/1992	7/31/1992
Data Package Inspection	pre-RCP Data Package	pre-RCP Data Package	pre-RCP Data Package	pre-RCP Data Package	pre-RCP Data Package	pre-RCP Data Package	pre-RCP Data Package
Chain of Custody Evaluation	COC not provided, lab results include 3 Soil samples submitted for 8010/8020 and 8015.	COC not provided, lab results include 12 Soil and 2 water samples submitted for 8010/8020.	4 soil samples for GC screening- 8021-like	4 groundwater samples for GC screening- 8021-like	4 Water samples for RCRA 8 metals	1 Soil sample for TCLP metals	3 Soil samples submitted for VOC screening
Preservation and Holding Time	Analyzed within hold time.	Analyzed within hold time.	Analyzed within hold time.	Analyzed within hold time.	Preserved appropriately. Analyzed within hold time.	Analyzed within hold time.	Analyzed within hold time.
Site-specific MS/MSD	None	None	None	None	None	None	None
Duplicate Samples	None	None	None	None	None	Within acceptance limits	None
Surrogates	None reported	None reported	None reported	None reported	None reported	None reported	None reported
LCS/LCSD	None reported	None reported	Within acceptance limits	Within acceptance limits	Within acceptance limits	Within acceptance limits	Within acceptance limits
Method Blanks	None reported	None reported	None reported	None reported	No detects	No detects	None reported
Lab Contaminants	None reported	None reported	None reported	None reported	None reported	None reported	None reported
Calibration/Etc.	None reported	None reported	None reported	None reported	None reported	None reported	None reported
RL Evaluation: Criteria/RL	None reported	None reported	None reported	None reported	None reported	None reported	None reported
Other QC Data	None reported	None reported	None reported	None reported	None reported	None reported	None reported
Conclusion:	Limited QC data, report is typical for its time period and does not have any obvious problems.	Limited QC data, report is typical for its time period and does not have any obvious problems.	Limited QC data, report is typical for its time period and does not have any obvious problems.	Limited QC data, report is typical for its time period and does not have any obvious problems.	Limited QC data, report is typical for its time period and does not have any obvious problems.	Limited QC data, report is typical for its time period and does not have any obvious problems.	Limited QC data, report is typical for its time period and does not have any obvious problems.

See laboratory results for additional information.

Appendix D
DATA QUALITY ASSESSMENT AND USABILITY EVALUATION
COMMERCIAL FOUNDRY COMPANIES
326 SOUTH STREET
NEW BRITAIN, CONNECTICUT

Sample Type/Location:	1993 GZA report	1993 GZA report	1993 GZA report	1993 GZA report	1993 GZA report	1993 GZA report	1993 GZA report
Lab/Lab Report ID:	GZA ECL Mobile Lab	GZA ECL 05687	CTL-83-132-2	GZA ECL 05731	CTL-83-236-3P	GZA ECL 05752	CTL-83-380-2P
Report Date:	7/1/1993	7/28/1993	8/16/1993	8/18/1993	8/20/1993	8/25/1993	8/27/1993
Data Package Inspection	pre-RCP Data Package	pre-RCP Data Package	pre-RCP Data Package	pre-RCP Data Package	pre-RCP Data Package	pre-RCP Data Package	pre-RCP Data Package
Chain of Custody Evaluation	54 soil gas samples analyzed on-site for VOCs by HNU 311 GC	7 Water and one soil sample submitted for 8021	2 Water samples submitted for 601/8010 and 602/8020 Scans	2 Water and one soil sample submitted for 8010/8020	3 Soil samples submitted for 601/8010 and 602/8020 Scans, PCBs, TPH, TCLP metals, flashpoint, pH, reactivity	1 soil sample submitted for 8010/8020	2 Water samples submitted for 601/8010 and 602/8020 Scans
Preservation and Holding Time	Analyzed within hold time.	Analyzed within hold time.	Analyzed within hold time.	Analyzed within hold time.	Analyzed within hold time.	Analyzed within hold time.	Analyzed within hold time.
Site-specific MS/MSD	None	None	None	None	None	None	None
Duplicate Samples	None	None	None	None	None	None	None
Surrogates	None reported	All surrogate recoveries were within limits.	None reported	All surrogate recoveries were within limits.	None reported	All surrogate recoveries were within limits.	None reported
LCS/LCSD	Within acceptance limits	None reported	None reported	None reported	None reported	Within acceptance limits	None reported
Method Blanks	No detects	None reported	None reported	None reported	None reported	No detects	None reported
Lab Contaminants	None reported	None reported	None reported	None reported	None reported	None reported	None reported
Calibration/Etc.	None reported	None reported	None reported	None reported	None reported	None reported	None reported
RL Evaluation: Criteria/RL	None reported	None reported	None reported	None reported	None reported	None reported	None reported
Other QC Data	None reported	None reported	None reported	None reported	None reported	None reported	None reported
Conclusion:	Limited QC data, report is typical for its time period and does not have any obvious problems.	Limited QC data, report is typical for its time period and does not have any obvious problems.	Limited QC data, report is typical for its time period and does not have any obvious problems.	Limited QC data, report is typical for its time period and does not have any obvious problems.	Limited QC data, report is typical for its time period and does not have any obvious problems.	Limited QC data, report is typical for its time period and does not have any obvious problems.	Limited QC data, report is typical for its time period and does not have any obvious problems.

See laboratory results for additional information

Appendix D
DATA QUALITY ASSESSMENT AND USABILITY EVALUATION
COMMERCIAL FOUNDRY COMPANIES
326 SOUTH STREET
NEW BRITAIN, CONNECTICUT

Sample Type/Location:	1993 GZA report	1995 GZA Report	1995 GZA Report	1996 GZA Jan Quarterly Report	1996 GZA Apr Quarterly Report	1996 GZA July Quarterly Report	1997 GZA Mar Quarterly Report
Lab/Lab Report ID:	CTL-83-381-1P	GZA ECL 9510-00127	Matrix Analytical 53395219	GZA ECL 9601-00122	GZA ECL 9604-00114	GZA ECL 9607-00098	GZA ECL 9703-00156
Report Date:	8/27/1993	11/7/1995	12/7/1995	1/22/1996	4/26/1996	7/25/1996	4/17/1997
Data Package Inspection	pre-RCP Data Package	pre-RCP Data Package	pre-RCP Data Package	pre-RCP Data Package	pre-RCP Data Package	pre-RCP Data Package	pre-RCP Data Package
Chain of Custody Evaluation	1 Water sample submitted for 601/8010 and 602/8020 Scans	COC not provided, lab results include 10 soil and 6 water samples by 8021	2 Soil samples for SPLP metals, TPH, PP13 metals, 8270	COC not provided, lab results include 7 groundwater samples submitted for 8021.	7 Groundwater samples submitted for 8021.	7 Groundwater samples submitted for 8021.	7 Groundwater samples submitted for 8021.
Preservation and Holding Time	Analyzed within hold time.	Analyzed within hold time.	Analyzed within hold time.	Analyzed within hold time.	Analyzed within hold time.	Analyzed within hold time.	Analyzed within hold time.
Site-specific MS/MSD	None	None	None	None	None	None	None
Duplicate Samples	None	None	Lab duplicate within limits.	Lab duplicate within limits.	Lab duplicate within limits.	Lab duplicate within limits.	Lab duplicate within limits.
Surrogates	None reported	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.
LCS/LCSD	None reported	None reported	Within acceptance limits	Within acceptance limits	Within acceptance limits	Within acceptance limits	Within acceptance limits
Method Blanks	None reported	None reported	No detects	No detects	No detects	No detects	No detects
Lab Contaminants	None reported	None reported	None	None	None	None	None
Calibration/Etc.	None reported	None reported	None reported	None reported	None reported	None reported	None reported
RL Evaluation: Criteria/RL	None reported	None reported	None reported	None reported	None reported	None reported	None reported
Other QC Data	None reported	None reported	None reported	None reported	None reported	None reported	None reported
Conclusion:	Limited QC data, report is typical for its time period and does not have any obvious problems.	Limited QC data, report is typical for its time period and does not have any obvious problems.	Limited QC data, report is typical for its time period and does not have any obvious problems.	Limited QC data, report is typical for its time period and does not have any obvious problems.	Limited QC data, report is typical for its time period and does not have any obvious problems.	Limited QC data, report is typical for its time period and does not have any obvious problems.	Limited QC data, report is typical for its time period and does not have any obvious problems.

See laboratory results for additional information

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326 SOUTH STREET
NEW BRITAIN, CONNECTICUT

Sample Type/Location:	1998 GZA Jan Quarterly Report	1998 GZA June Quarterly Report	1998 GZA Dec Quarterly Report	1999 GZA Apr Quarterly Report	2002 GZA Post-Rem SV Report	2006 GZA Phase 1/2 Report	2006 GZA Phase 1/2 Report
Lab/Lab Report ID:	GZA ECL 9801-00222	GZA ECL 9806-00218	GZA ECL 9812-00195	GZA ECL 9904-00070	BL Analytical/Sentinel	GZA ECL 0507-00139	GZA ECL 0508-00109
Report Date:	2/6/1998	7/2/1998	1/7/1999	4/29/1999	1/22/2001	8/3/2005	8/19/2005
Data Package Inspection	pre-RCP Data Package	pre-RCP Data Package	pre-RCP Data Package	pre-RCP Data Package	pre-RCP Data Package	pre-RCP Data Package	pre-RCP Data Package
Chain of Custody Evaluation	7 Groundwater samples submitted for 8021.	7 Groundwater samples submitted for 8021.	7 Groundwater samples submitted for 8021.	7 Groundwater samples submitted for 8021.	54 Soil gas samples for VOCs analyzed during 4 quarters of monitoring. On-site mobile laboratory.	22 Soil samples submitted for metals, PCBs, ETPH	2 Soil samples submitted for metals and ETPH
Preservation and Holding Time	Analyzed within hold time.	Analyzed within hold time.	Analyzed within hold time.	Analyzed within hold time.	Analyzed within hold time.	Analyzed within hold time.	Analyzed within hold time.
Site-specific MS/MSD	None	None	None	None	None	None	None
Duplicate Samples	Lab duplicate within limits.	Lab duplicate within limits.	Lab duplicate within limits.	Lab duplicate within limits.	None	None	None
Surrogates	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.	None reported	Some surrogate recoveries for ETPH are low due to matrix interference.	All surrogate recoveries were within limits.
LCS/LCSD	Within acceptance limits	Within acceptance limits	Within acceptance limits	Within acceptance limits	None reported	Within acceptance limits	Within acceptance limits
Method Blanks	No detects	No detects	No detects	No detects	None reported	No detects	No detects
Lab Contaminants	None	None	None	None	None reported	None	None
Calibration/Etc.	None reported	None reported	None reported	None reported	None reported	No issues reported	No issues reported
RL Evaluation: Criteria/RL	None reported	None reported	None reported	None reported	None reported	No issues reported	No issues reported
Other QC Data	None reported	None reported	None reported	None reported	None reported	None	None
Conclusion:	Limited QC data, report is typical for its time period and does not have any obvious problems.	Limited QC data, report is typical for its time period and does not have any obvious problems.	Limited QC data, report is typical for its time period and does not have any obvious problems.	Limited QC data, report is typical for its time period and does not have any obvious problems.	Limited QC data, report is typical for its time period and does not have any obvious problems.	QC data is complete and comparable to RCP deliverable.	QC data is complete and comparable to RCP deliverable.

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Sample Type/Location:	2006 GZA Phase 1/2 Report	2006 GZA Phase 1/2 Report	2006 GZA Phase 1/2 Report	GZA Soil Remed .40	GZA Soil Remed .40	GZA Soil Remed .40	GZA Soil Remed .40
Lab/Lab Report ID:	GZA ECL 0510-00090	GZA ECL 0511-00087	GZA ECL 0511-00198	Phoenix 88490	Phoenix 88855	Phoenix 88511	Phoenix 89276
Report Date:	10/20/2005	11/16/2005	11/30/2005	6/29/2009	6/29/2009	6/29/2009	6/30/2009
Data Package Inspection	pre-RCP Data Package	pre-RCP Data Package	pre-RCP Data Package	Non RCP Data Package with RCP-like deliverables	Non RCP Data Package with RCP-like deliverables	Non RCP Data Package with RCP-like deliverables	RCP Data Package
Chain of Custody Evaluation	5 Groundwater samples submitted for 8260 and metals.	6 Groundwater samples submitted for 8260 and metals.	1 Groundwater sample submitted for metals.	20 Soil samples for PCBs	10 Soil samples for PCBs	1 Waste characterization soil sample	1 Soil sample for PCBs
Preservation and Holding Time	Analyzed within hold time.	Analyzed within hold time.	Analyzed within hold time.	Analyzed within hold time.	Analyzed within hold time.	Analyzed within hold time.	Samples were received at a temperature above 6 degrees with cooling initiated due to the short period of time between sample collection and sample delivery. No bias is expected.
Site-specific MS/MSD	None	None	None	None	None	None	None
Duplicate Samples	None	None	None	None	None	None	None
Surrogates	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.
LCS/LCSD	Within acceptance limits	Within acceptance limits	Within acceptance limits	Within acceptance limits	Within acceptance limits	Within acceptance limits	Within acceptance limits
Method Blanks	No detects	No detects	No detects	No detects	No detects	No detects	No detects
Lab Contaminants	None	None	None	None	None	None	None
Calibration/Etc.	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported
RL Evaluation: Criteria/RL	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported
Other QC Data	None	None	None	None	None	None	None
Conclusion:	QC data is complete and comparable to RCP deliverable.	QC data is complete and comparable to RCP deliverable.	QC data is complete and comparable to RCP deliverable.	QC data is complete and comparable to RCP deliverable.	QC data is complete and comparable to RCP deliverable.	QC data is complete and suitable for the purposes of this sample.	Data is usable as reported.

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Sample Type/Location:	GZA Soil Remed .40	GZA Soil Remed .40	GZA Soil Remed .40	GZA Soil Remed .40	GZA Soil Remed .40	GZA Soil Remed .40	GZA Soil Remed .40
Lab/Lab Report ID:	Phoenix 90658	Phoenix 90678	Phoenix 90646	Phoenix 91116	Phoenix 92120	Phoenix 91200	Phoenix 91116
Report Date:	7/7/2009	7/7/2009	7/8/2009	7/9/2009	7/9/2009	7/10/2009	7/10/2009
Data Package Inspection	RCP Data Package	Non RCP Data Package with RCP-like deliverables	RCP Data Package	Non RCP Data Package with RCP-like deliverables	RCP Data Package	RCP Data Package	RCP Data Package
Chain of Custody Evaluation	8 Soil samples for PCBs	15 Soil samples for PCBs	2 Soil samples for PCBs		3 Soil samples for PCBs	10 Soil samples for PCBs	6 Soil samples for PCBs
Preservation and Holding Time	Preserved appropriately. Analyzed within hold time.	Samples were received at a temperature above 6 degrees with cooling initiated due to the short period of time between sample collection and sample delivery. No bias is expected.	Samples were received at a temperature above 6 degrees with cooling initiated due to the short period of time between sample collection and sample delivery. No bias is expected.	Samples were received at a temperature above 6 degrees with cooling initiated due to the short period of time between sample collection and sample delivery. No bias is expected.	Samples were received at a temperature above 6 degrees with cooling initiated due to the short period of time between sample collection and sample delivery. No bias is expected.	Preserved appropriately. Analyzed within hold time.	Samples were received at a temperature above 6 degrees with cooling initiated due to the short period of time between sample collection and sample delivery. No bias is expected.
Site-specific MS/MSD	None	MS/MSD could not be calculated due to PCBs in the original sample.	None		None	MS/MSD could not be calculated due to matrix interference.	Within acceptance limits
Duplicate Samples	None	None	None	None	None	None	None
Surrogates	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.	ETPH surrogate was out of limits due to extraction error.	All surrogate recoveries were within limits.
LCS/LCSD	Within acceptance limits	Within acceptance limits	Within acceptance limits	Within acceptance limits	Within acceptance limits	Within acceptance limits	Within acceptance limits
Method Blanks	No detects	No detects	No detects	No detects	No detects	No detects	No detects
Lab Contaminants	None	None	None	None	None	None	None
Calibration/Etc.	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported
RL Evaluation: Criteria/RL	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported
Other QC Data	None	None	None	None	None	None	None
Conclusion:	Data is usable as reported.	Data is usable as reported.	Data is usable as reported.	Data is usable as reported.	Data is usable as reported.	Data is usable as reported.	Data is usable as reported.

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Sample Type/Location:	GZA Soil Remed .40	GZA Soil Remed .40	GZA Soil Remed .40	GZA Soil Remed .40	GZA Soil Remed .40	GZA Soil Remed .40	GZA Soil Remed .40
Lab/Lab Report ID:	Phoenix 93255	Phoenix 92135	Phoenix 92136	Phoenix 91200	Phoenix 93262	Phoenix 95894	Phoenix 91604
Report Date:	7/15/2009	7/15/2009	7/22/2009	7/23/2009	7/23/2009	7/23/2009	7/24/2009
Data Package Inspection	RCP Data Package	RCP Data Package	RCP Data Package	RCP Data Package	RCP Data Package	RCP Data Package	RCP Data Package
Chain of Custody Evaluation	10 Soil samples for PCBs	2 Soil samples for PCBs	1 Soil sample for PCBs and ETPH	5 Soil samples for metals, SPLP metals, PCBs and ETPH	2 Soil samples for PCBs and ETPH	11 Soil samples for PCBs	2 Soil samples for PCBs and ETPH
Preservation and Holding Time	Preserved appropriately. Analyzed within hold time.	Samples were received at a temperature above 6 degrees with cooling initiated due to the short period of time between sample collection and sample delivery. No bias is expected.	Samples were received at a temperature above 6 degrees with cooling initiated due to the short period of time between sample collection and sample delivery. No bias is expected.	Preserved appropriately. Analyzed within hold time.	Preserved appropriately. Analyzed within hold time.	Samples were received at a temperature above 6 degrees with cooling initiated due to the short period of time between sample collection and sample delivery. No bias is expected.	Samples were received at a temperature above 6 degrees with cooling initiated due to the short period of time between sample collection and sample delivery. No bias is expected.
Site-specific MS/MSD	Within acceptance limits	Within acceptance limits	Within acceptance limits	MS/MSD could not be calculated due to matrix interference.	Within acceptance limits	MS/MSD could not be calculated due to PCBs in the original sample.	None
Duplicate Samples	None	None	None	None	None	None	None
Surrogates	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.	ETPH surrogate was out of limits due to extraction error.	ETPH surrogate was out of limits due to extraction error.	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.
LCS/LCSD	Within acceptance limits	Within acceptance limits	Within acceptance limits	Within acceptance limits	Within acceptance limits	Within acceptance limits	Within acceptance limits
Method Blanks	No detects	No detects	No detects	No detects	No detects	No detects	No detects
Lab Contaminants	None	None	None	None	None	None	None
Calibration/Etc.	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported
RL Evaluation: Criteria/RL	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported
Other QC Data	None	None	None	None	None	None	None
Conclusion:	Data is usable as reported.	Data is usable as reported.	Data is usable as reported.	Data is usable as reported.	Data is usable as reported.	Data is usable as reported.	Data is usable as reported.

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Sample Type/Location:	GZA Soil Remed .40	GZA Soil Remed .40	GZA Soil Remed .40	GZA Soil Remed .40	GZA Soil Remed .40	GZA Supp Interior Inv	GZA Supp Interior Inv
Lab/Lab Report ID:	Phoenix 91118	Phoenix 93274	Phoenix 95393	Phoenix 97979	Phoenix 93261	Phoenix 91658/91660	Phoenix 91642
Report Date:	7/24/2009	7/24/2009	7/28/2009	7/28/2009	8/25/2009	1/5/2011	1/10/2011
Data Package Inspection	RCP Data Package	RCP Data Package	RCP Data Package	RCP Data Package	RCP Data Package	RCP Data Package	RCP Data Package
Chain of Custody Evaluation	1 Soil sample for PCBs and ETPH	8 Soil samples for PCBs and ETPH	10 Soil samples for PCBs	6 Soil samples for PCBs	6 Soil samples for PCBs	6 Soil samples for VOCs with TICs and PCBs	3 Soil samples for VOCs with TICs and PCBs
Preservation and Holding Time	Samples were received at a temperature above 6 degrees with cooling initiated due to the short period of time between sample collection and sample delivery. No bias is expected.	Preserved appropriately. Analyzed within hold time.	Samples were received at a temperature above 6 degrees with cooling initiated due to the short period of time between sample collection and sample delivery. No bias is expected.	Samples were received at a temperature above 6 degrees with cooling initiated due to the short period of time between sample collection and sample delivery. No bias is expected.	Samples were received at a temperature above 6 degrees with cooling initiated due to the short period of time between sample collection and sample delivery. No bias is expected.	Samples were received at a temperature above 6 degrees with cooling initiated due to the short period of time between sample collection and sample delivery. No bias is expected.	Samples were received at a temperature above 6 degrees with cooling initiated due to the short period of time between sample collection and sample delivery. No bias is expected.
Site-specific MS/MSD	None	None	Within acceptance limits	None	Within acceptance limits	None	None
Duplicate Samples	None	None	None	None	None	None	None
Surrogates	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.	PCB surrogate DCBP in some samples could not be reported due to matrix interference.	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.
LCS/LCSD	Within acceptance limits	Within acceptance limits	Within acceptance limits	Within acceptance limits	Within acceptance limits	LCS/D recoveries out of limits for acetone, trans-1,2 DCE, 1,2,3-TCB, hexachlorobutadiene, MTBE	LCS/D recoveries out of limits for 1,4-dichloro-2-butene, acetone
Method Blanks	No detects	No detects	No detects	No detects	No detects	No detects	No detects
Lab Contaminants	None	None	None	None	None	None	None
Calibration/Etc.	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	Minor issues for non-COC compounds
RL Evaluation: Criteria/RL	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported
Other QC Data	None	None	None	None	None	None	None
Conclusion:	Data is usable as reported.	Data is usable as reported.	Data is usable as reported.	Data is usable as reported.	Data is usable as reported.	Possible low bias for VOCs with LCS issues.	Possible low bias for VOCs with LCS issues in one sample.

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Sample Type/Location:	GZA Supp Interior Inv	GZA Supp Interior Inv	2011 Interior	2011 Interior	2011 Interior	2011 Interior	2011 Interior
Lab/Lab Report ID:	Phoenix 91941	Phoenix 91958	Phoenix 29520	Phoenix 30181	Phoenix 30686	Phoenix 30699	Phoenix 30712
Report Date:	1/26/2011	1/25/2011	5/17/2011	5/18/2011	5/19/2011	5/20/2011	5/19/2011
Data Package Inspection	Non RCP Data Package with RCP-like deliverables	Non RCP Data Package with RCP-like deliverables	RCP Data Package	RCP Data Package	RCP Data Package	RCP Data Package	RCP Data Package
Chain of Custody Evaluation	5 Soil samples for PCBs	2 Soil samples for PCBs	21 Paint samples for PCBs (one blind duplicate)	10 Paint samples for PCBs	13 Concrete samples for PCBs	13 Concrete samples for PCBs	9 Concrete samples for PCBs
Preservation and Holding Time	Analyzed within hold time.	Analyzed within hold time.	Preserved appropriately. Analyzed within hold time.	Preserved appropriately. Analyzed within hold time.	Preserved appropriately. Analyzed within hold time.	Preserved appropriately. Analyzed within hold time.	Preserved appropriately. Analyzed within hold time.
Site-specific MS/MSD	MS/MSD could not be calculated due to matrix interference.	None	The MS/MSD could not be calculated due to the presence of PCBs in the original sample.	None	The MS/MSD could not be calculated due to the presence of PCBs in the original sample.	None	None
Duplicate Samples	None	None	None	None	None	None	None
Surrogates	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.
LCS/LCSD	Within acceptance limits	Within acceptance limits	Within acceptance limits	Within acceptance limits	Within acceptance limits	Within acceptance limits	Within acceptance limits
Method Blanks	No detects	No detects	No detects	No detects	No detects	No detects	No detects
Lab Contaminants	None	None	None	None	None	None	None
Calibration/Etc.	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported
RL Evaluation: Criteria/RL	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported
Other QC Data	None	None	None	None	None	None	None
Conclusion:	QC data is complete and comparable to RCP deliverable.	QC data is complete and comparable to RCP deliverable.	Data is usable as reported.	Data is usable as reported.	Data is usable as reported.	Data is usable as reported.	Data is usable as reported.

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Sample Type/Location:	2011 Interior	2011 Interior	Waste Charac	Equip Clearance Wipe	Equip Clearance Wipe	Source Removal Soil/Conc	Source Removal Soil/Conc
Lab/Lab Report ID:	Phoenix 30721	Phoenix 30171	Phoenix BB08283	Phoenix BB15298	Phoenix BB16147	ESS 1112461	ESS 1112462
Report Date:	5/20/2011	5/23/2011	12/13/2011	12/30/2011	1/3/2012	1/4/2012	1/4/2012
Data Package Inspection	RCP Data Package	RCP Data Package	RCP Data Package	RCP Data Package	RCP Data Package	RCP Data Package	RCP Data Package
Chain of Custody Evaluation	9 Concrete samples for PCBs	10 Wipe samples for PCBs	1 Soil, 1 concrete sample for 8260, pH, RCRA 8 metals, TCLP metals, PCBs	7 wipe samples for PCBs	1 wipe sample for PCBs	5 Soil samples for PCBs	11 Soil/solid samples for PCBs
Preservation and Holding Time	Preserved appropriately. Analyzed within hold time.	Preserved appropriately. Analyzed within hold time.	Preserved appropriately. Analyzed within hold time.	Analyzed within hold time.	Analyzed within hold time.	Analyzed within hold time.	Analyzed within hold time.
Site-specific MS/MSD	All MS/MSD RPDs were within limits except PCB-1016, which recovered above limits.	None	None	None	None	None	None
Duplicate Samples	None	None	None	None	None	None	None
Surrogates	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.
LCS/LCSD	Within acceptance limits	Within acceptance limits	LCS/D recoveries out of limits for acetone, 2-hexanone, methyl ethyl ketone, trichlorofluoromethane..	Within acceptance limits	Within acceptance limits	Within acceptance limits	Within acceptance limits
Method Blanks	No detects	No detects	No detects	No detects	No detects	No detects	No detects
Lab Contaminants	None	None	None	None	None	None	None
Calibration/Etc.	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported
RL Evaluation: Criteria/RL	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported
Other QC Data	None	None	None	None	None	None	None
Conclusion:	Data is usable as reported.	Data is usable as reported.	Slight low bias is possible for 1,2,4-trichlorobenzene and methyl ethyl ketone.	Data is usable as reported.	Data is usable as reported.	Data is usable as reported.	Data is usable as reported.

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Sample Type/Location:	Source Removal Soil/Conc	Source Removal Soil/Conc	Waste Charac	Floor	Ceiling, Soil, Pipe	Floor	Floor
Lab/Lab Report ID:	ESS 1112463	ESS 1201044	ESS1202-00069	Phoenix GBD10647	Phoenix GBD12627	Phoenix GBD12964	Phoenix GBD12988
Report Date:	1/4/2012	1/11/2012	2/27/2012	12/23/2012	1/3/2013	1/3/2013	1/3/2013
Data Package Inspection	RCP Data Package	RCP Data Package	RCP Data Package	RCP Data Package	RCP Data Package	RCP Data Package	RCP Data Package
Chain of Custody Evaluation	1 concrete sample for PCBs	9 soil samples for PCBs	2 water samples for 8260, pH, RCRA 8 metals, PCBs	4 Concrete samples for PCBs	8 Wipe, 8 Solid/Wipe, 11 Soil samples for PCBs	22 Solid samples for PCBs	14 Solid samples for PCBs
Preservation and Holding Time	Analyzed within hold time.	Analyzed within hold time.	pH samples were run outside hold time of "immediately."	Preserved appropriately. Analyzed within hold time.	Preserved appropriately. Analyzed within hold time.	Samples were received at a temperature above 6 degrees with cooling initiated due to the short period of time between sample collection and sample delivery. No bias is expected.	Samples were received at a temperature above 6 degrees with cooling initiated due to the short period of time between sample collection and sample delivery. No bias is expected.
Site-specific MS/MSD	None	MS recovery is high for Aroclor 1016 and 1260.	None	None	None	None	None
Duplicate Samples	None	None	None	None	A14-S-4 (D): 420 mg/kg, 490 mg/kg. Good reproducibility. Orangeboring Pipe (D): 6100 mg/kg, 1300 mg/kg. Non-homogenous sample matrix. See GBD 25079 for duplicate results.	A4-F-1 (0.0-0.5) (D): 3.9 mg/kg, 4 mg/kg. Good reproducibility. A5-F-5 (0.0-0.5) (D) 9.6 mg/kg, 4.9 mg/kg. Non-homogenous sample matrix (concrete). See GBD 25079 for duplicate results.	A10-F-15 (0.0-0.5) (D): 4 mg/kg, 4.4 mg/kg. Good reproducibility. See GBD 25079 for duplicate results.
Surrogates	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.
LCS/LCSD	Within acceptance limits	Within acceptance limits	Within acceptance limits	Within acceptance limits	Within acceptance limits	Within acceptance limits	Within acceptance limits
Method Blanks	No detects	No detects	No detects	No detects	No detects	No detects	No detects
Lab Contaminants	None	None	None	None	None	None	None
Calibration/Etc.	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported
RL Evaluation: Criteria/RL	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported
Other QC Data	None	None	None	None	None	None	None
Conclusion:	Data is usable as reported.	Data is usable as reported.	Data is usable as reported.	Data is usable as reported.	Data is usable as reported.	Data is usable as reported.	Data is usable as reported.

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Sample Type/Location:	Soil	Soil	Soil	Soil	Wall	Floor	Wall	Soil
Lab/Lab Report ID:	Phoenix GBD12659	Phoenix GBD13002	Phoenix GBD13026	Phoenix GBD13050	Phoenix GBD13680	Phoenix GBD13690	Phoenix GBD13859	Phoenix GBD18412
Report Date:	1/3/2013	1/3/2013	1/3/2013	1/4/2013	1/7/2013	1/7/2013	1/8/2013	1/16/2013
Data Package Inspection	RCP Data Package	RCP Data Package	RCP Data Package	RCP Data Package	RCP Data Package	RCP Data Package	RCP Data Package	RCP Data Package
Chain of Custody Evaluation	20 Soil samples for PCBs, ETPH, SVOCs, VOCs	11 Soil samples for PCBs	11 Soil samples for PCBs	7 Soil samples for PCBs	10 Solid (paint, concrete) samples for PCBs	12 Solid samples for PCBs	3 Soil samples for ETPH, 2 solid samples for PCBs	1 Soil sample for PCBs
Preservation and Holding Time	Preserved appropriately. Analyzed within hold time.	Preserved appropriately. Analyzed within hold time.	Preserved appropriately. Analyzed within hold time.	Preserved appropriately. Analyzed within hold time.	Preserved appropriately. Analyzed within hold time.	Preserved appropriately. Analyzed within hold time.	Preserved appropriately. Analyzed within hold time.	Preserved appropriately. Analyzed within hold time.
Site-specific MS/MSD	None	None	None	None	None	None	None	None
Duplicate Samples	A14-S-3 (0.0-0.5) (D): 570 mg/kg, 710 mg/kg. Good reproducibility. See GBD 25079 for duplicate results.	None	None	None	A10-PW-4 (D): 53 mg/kg, 52 mg/kg. Good reproducibility. A10-PW-7 (D): 1.3 mg/kg, 1.2 mg/kg. Good reproducibility. See GBD 25079 for duplicate results.	A14-F-5 (0.0-0.5) (D): 20 mg/kg, 22 mg/kg. Good reproducibility. See GBD 25079 for duplicate results.	None	None
Surrogates	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.
LCS/LCSD	Within acceptance limits	Within acceptance limits	Within acceptance limits	Within acceptance limits	Within acceptance limits	Within acceptance limits	Within acceptance limits	Within acceptance limits
Method Blanks	No detects	No detects	No detects	No detects	No detects	No detects	No detects	No detects
Lab Contaminants	None	None	None	None	None	None	None	None
Calibration/Etc.	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported
RL Evaluation: Criteria/RL	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported
Other QC Data	None	None	None	None		None	None	None
Conclusion:	Data is usable as reported.	Data is usable as reported.	Data is usable as reported.	Data is usable as reported.	Data is usable as reported.	Data is usable as reported.	Data is usable as reported.	Data is usable as reported.

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Sample Type/Location:	Wall	Soil	Soil	Floor	Floor	Soil, Wall	Soil	Orangeburg Pipe
Lab/Lab Report ID:	Phoenix GBD13859	Phoenix GBD12659	Phoenix GBD13050	Phoenix GBD13701	Phoenix GBD13725	Phoenix GBD25079	Phoenix GBD99800	Phoenix GBD99309
Report Date:	1/17/2013	1/18/2013	1/20/2013	1/21/2013	1/21/2013	2/7/2013	7/19/2013	7/3/2013
Data Package Inspection	RCP Data Package	RCP Data Package	RCP Data Package	RCP Data Package	RCP Data Package	RCP Data Package	RCP Data Package	RCP Data Package
Chain of Custody Evaluation	1 Solid sample for PCBs, ETPH, SVOCs	1 Soil sample for PCBs, ETPH, SVOCs	4 Soil samples for PCBs	16 Solid samples for PCBs	9 Solid samples for PCBs	9 Soil samples for PCBs	1 Soil sample for ETPH	1 Pipe sample for PCBs
Preservation and Holding Time	Preserved appropriately. Analyzed within hold time.	Preserved appropriately. Analyzed within hold time.	Preserved appropriately. Analyzed within hold time.	Preserved appropriately. Analyzed within hold time.	Preserved appropriately. Analyzed within hold time.	Preserved appropriately. Analyzed within hold time.	Preserved appropriately. Analyzed within hold time.	Preserved appropriately. Analyzed within hold time.
Site-specific MS/MSD	None	None	None	None	None	None	None	None
Duplicate Samples	None	None	None	None	None	None	None	None
Surrogates	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.	Surrogates were diluted out due to high PCB concentrations.
LCS/LCSD	Within acceptance limits	Within acceptance limits	Within acceptance limits	Within acceptance limits	Within acceptance limits	Within acceptance limits	Within acceptance limits	Within acceptance limits
Method Blanks	No detects	No detects	No detects	No detects	No detects	No detects	No detects	No detects
Lab Contaminants	None	None	None	None	None	None	None	None
Calibration/Etc.	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported
RL Evaluation: Criteria/RL	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported
Other QC Data	None	None	None	None	None	6 Duplicate samples associated with previously analyzed samples. Five within limits for reproducibility. Three not within limits, likely due to non-homogeneous sample matrix.	None	None
Conclusion:	Data is usable as reported.	Data is usable as reported.	Data is usable as reported.	Data is usable as reported.	Data is usable as reported.	Data is usable as reported.	Data is usable as reported.	Data is usable as reported.

See laboratory results for additional information

Appendix D
DATA QUALITY ASSESSMENT AND USABILITY EVALUATION
COMMERCIAL FOUNDRY COMPANIES
326 SOUTH STREET
NEW BRITAIN, CONNECTICUT

Sample Type/Location:	Concrete Floor	Concrete Floor	Concrete Floor	Soil Composite	Orangeburg Pipe	Soil	Soil	Soil
Lab/Lab Report ID:	Phoenix GBD99568	Phoenix GBD99575	Phoenix GBD99578	Phoenix GBD99773	Phoenix GBD99775	Phoenix GBD99778	Phoenix GBD99780	Phoenix GBD99800
Report Date:	7/4/2013	7/9/2013	7/23/2013	7/8/2013	7/18/2013	7/15/2013	7/8/2013	7/19/2013
Data Package Inspection	RCP Data Package	RCP Data Package	RCP Data Package	RCP Data Package	RCP Data Package	RCP Data Package	RCP Data Package	RCP Data Package
Chain of Custody Evaluation	4 Concrete samples for PCBs	3 Concrete samples for PCBs	5 Concrete samples for PCBs	2 Soil samples for PCBs	1 Pipe sample for PCBs	2 Soil samples for PCBs	8 Soil samples for ETPH	1 Soil sample for ETPH
Preservation and Holding Time	Preserved appropriately. Analyzed within hold time.	Preserved appropriately. Analyzed within hold time.	Preserved appropriately. Analyzed within hold time.	Preserved appropriately. Analyzed within hold time.	Preserved appropriately. Analyzed within hold time.	Preserved appropriately. Analyzed within hold time.	Preserved appropriately. Analyzed within hold time.	Preserved appropriately. Analyzed within hold time.
Site-specific MS/MSD	None	None	None	None	None	None	A3-S-15(0-2): ETPH recoveries were low.	None
Duplicate Samples	None	A-14-F-37 (0-0.5) is a duplicate of A-14-F-1 (BD10647). Results were not consistent, possibly due to sample matrix or non homogeneity, at ND and 5.2 mg/kg.	None	None	The sample was re-analyzed to confirm the result. Aroclor 1248 was detected at 14,000 mg/kg and 37,000 mg/kg. (Previous analysis in GBD99309 was 23,000 mg/kg.) Variation is likely due to sample matrix.	None	None	None
Surrogates	All surrogate recoveries were within limits.	Surrogates were diluted out due to high PCB concentrations.	Surrogates were diluted out due to high PCB concentrations.	All surrogate recoveries were within limits.	Surrogates were diluted out due to high PCB concentrations.	Surrogates were diluted out due to high PCB concentrations.	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.
LCS/LCSD	Within acceptance limits	Within acceptance limits	Within acceptance limits	Within acceptance limits	Within acceptance limits	Within acceptance limits	Within acceptance limits	Within acceptance limits
Method Blanks	No detects	No detects	No detects	No detects	No detects	No detects	No detects	No detects
Lab Contaminants	None	None	None	None	None	None	None	None
Calibration/Etc.	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported
RL Evaluation: Criteria/RL	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported
Other QC Data	None	None	None	None	None	None	None	None
Conclusion:	Data is usable as reported.	Data is usable as reported.	Data is usable as reported.	Data is usable as reported.	Data is usable as reported.	Data is usable as reported.	Data is usable as reported.	Data is usable as reported.

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Appendix D
DATA QUALITY ASSESSMENT AND USABILITY EVALUATION
COMMERCIAL FOUNDRY COMPANIES
326 SOUTH STREET
NEW BRITAIN, CONNECTICUT

Sample Type/Location:	Soil	Soil	Soil	Paint Wall	Paint Wall	Paint Wall	Soil	Water
Lab/Lab Report ID:	Phoenix GBF00861	Phoenix GBF00903	Phoenix GBF00934	Phoenix GBF01274	Phoenix GBF01283	Phoenix GBF01291	Phoenix GBF01298	Phoenix GBF03684
Report Date:	7/23/2013	7/15/2013	7/10/2013	7/11/2013	7/12/2013	7/12/2013	7/15/2013	7/16/2013
Data Package Inspection	RCP Data Package	RCP Data Package	RCP Data Package	RCP Data Package	RCP Data Package	RCP Data Package	RCP Data Package	RCP Data Package
Chain of Custody Evaluation	2 Soil samples for PCBs	9 Soil samples for PCBs	3 Soil samples for PCBs	9 Solid samples for PCBs	8 Solid samples for PCBs	7 Solid samples for PCBs	3 Soil samples for ETPH	1 Water sample for PCBs
Preservation and Holding Time	Preserved appropriately. Analyzed within hold time.	Preserved appropriately. Analyzed within hold time.	Preserved appropriately. Analyzed within hold time.	Preserved appropriately. Analyzed within hold time.	Preserved appropriately. Analyzed within hold time.	Preserved appropriately. Analyzed within hold time.	Preserved appropriately. Analyzed within hold time.	Preserved appropriately. Analyzed within hold time.
Site-specific MS/MSD	A14-S-24 (0-0.25): Within limits	Ext-8 (0.5-0.75): Within limits	None	None	None	None	None	None
Duplicate Samples	None	None	None	None	None	A-12-PW-1 (20) was submitted as a blind duplicate for A-12-PW-1(10). Results: Total PCBs 5.4 and 5.2 mg/kg. Good reproducibility.	None	None
Surrogates	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.	Surrogates were diluted out due to high PCB concentrations.	Surrogates were diluted out due to high PCB concentrations.	Surrogates were diluted out due to high PCB concentrations.	All surrogate recoveries were within limits.	All surrogate recoveries were within limits.
LCS/LCSD	Within acceptance limits	Within acceptance limits	Within acceptance limits	Within acceptance limits	Within acceptance limits	Within acceptance limits	Within acceptance limits	Within acceptance limits
Method Blanks	No detects	No detects	No detects	No detects	No detects	No detects	No detects	No detects
Lab Contaminants	None	None	None	None	None	None	None	None
Calibration/Etc.	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported
RL Evaluation: Criteria/RL	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported	No issues reported
Other QC Data	None	None	None	None	None	None	None	None
Conclusion:	Data is usable as reported.	Data is usable as reported.	Data is usable as reported.	Data is usable as reported.	Data is usable as reported.	Data is usable as reported.	Data is usable as reported.	Data is usable as reported.

See laboratory results for additional information